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Result
No.
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Perfect score:
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Maximum DB
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Word size
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Post-processing: Listing first 50 summaries
     score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pred. No.
                                                                                                                                                                                                                                                                                                                                                                              Score
                                                                                                                                                                                                                                                                                                                                                                                                                                               18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  seq length: 0
seq length: 2000000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                          greater than
                                                                                                                                                                                                                                                                                                                                                                                                                                              derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Issued_Patents_AA:*
1: /cgn2_6/ptodata/2,
2: /cgn2_6/ptodata/2,
3: /cgn2_6/ptodata/2,
4: /cgn2_6/ptodata/2,
5: /cgn2_6/ptodata/2,
6: /cgn2_6/ptodata/2,
                                                                                                                                                                                                                                                                                                                                                                           Query
Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                      is the number of results predicted by chance to have a ater than or equal to the score of the result being printed.
  0
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Gapop 60.0 , Gapext 60.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             212252 seqs, 22503292 residues
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8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GenCore version
Copyright (c) 1993 - 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /cgn2_6/ptodata/2/1aa/5A_COMB.pep:*
/cgn2_6/ptodata/2/1aa/5B_COMB.pep:*
/cgn2_6/ptodata/2/1aa/6A_COMB.pep:*
/cgn2_6/ptodata/2/1aa/6B_COMB.pep:*
/cgn2_6/ptodata/2/1aa/B_COMB.pep:*
/cgn2_6/ptodata/2/1aa/PCTUS_COMB.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       satisfying
                                                                                                                                                                                                                                                                                                                                                                              Length
                             DB
US-08-488-113B-153
US-08-477-484B-153
US-08-107-669D-17
US-08-477-788A-17
US-08-477-788A-17
US-08-646-360-153
US-08-646-360-153
US-08-839-765-153
US-08-839-765-153
US-08-839-765-153
US-08-895-590-5
US-08-895-590-5
US-08-895-71-17
US-08-256-771-17
US-08-256-771-17
US-08-256-771-17
US-08-256-771-17
US-08-256-771-17
US-08-165-545-7
US-08-165-545-7
US-08-165-545-7
US-08-165-545-7
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US-08-165-545-7
US-08-165-545-7
US-08-165-545-7
US-08-165-545-7
US-08-176-938-20
US-08-176-938-20
US-08-176-938-20
US-08-176-938-20
US-08-176-938-20
US-08-176-938-20
US-08-176-938-20
US-08-176-938-20
US-08-176-938-20
US-08-187-006-155
US-08-487-006-155
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4.329 Million cell updates/sec
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Sequence 153, App
Sequence 17, Appl
Sequence 17, Appl
Sequence 17, Appl
Sequence 17, Appl
Sequence 153, App
Sequence 153, App
Sequence 153, App
Sequence 153, App
Sequence 17, Appl
Sequence 1, Appl
Sequence 2, Appl
Sequence 27, Appl
Sequence 265, Appl
Sequence 165, Appl
Sequence 11, Appl
Sequence 11, Appl
Sequence 151, Appl
Sequence 151, Appl
Sequence 151, Appl
Sequence 152, Appl
Sequence 151, Appl
Sequence 151, Appl
Sequence 152, Appl
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US-08-488-113B-153
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; Patent No.
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US-08-981-122-24	-09-112-656-1	US-09-222-373-50	US-09-222-373-49	US-08-871-355A-108	US-08-722-806A-7	US-08-645-193B-27	-659A-15	-659A-15		US-08-488-659A-150	US-08-685-589A-6	US-08-637-759B-108	US-08-592-646A-62	US-08-441-871-65	1-5	۲	US-08-381-984-16	US-08-458-367-8	US-08-222-851-22	US-08-170-360-17	US-08-256-771-16	US-08-487-006-153
24,	٠,	•	Sequence 49, Appl	Sequence 108, App	Sequence 7, Appli	≻	ω	-	-	0	Sequence 6, Appli	,8	'n	5	•	Sequence 1, Appli	Sequence 16, Appl	Sequence 8, Appli	-	-	Sequence 16, Appl	Sequence 153, App

ALIGNMENTS

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APPLICATION NUMBER: US/08/488,113B
FILING DATE: 07-JUN-1995
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: US 08/425,336
FILING DATE: 18-APR-1995
PRIOR APPLICATION NUMBER: US 08/064,691
FILING DATE: 12-MAY-1993
PRIOR APPLICATION NUMBER: US 07/988,430
APPLICATION NUMBER: US 07/988,430
APPLICATION NUMBER: US 07/988,430
FILING DATE: 09-DEC-1992
PRIOR APPLICATION NUMBER: US 07/981,707
APPLICATION NUMBER: US 07/901,707
FILING DATE: 19-JUN-1992
PRIOR APPLICATION NUMBER: US 07/787,567
APPLICATION NUMBER: US 07/787,56
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES: 169
CORRESPONDENCE ADDRESS:
ADDRESSEE: McAndrews, Held & Malloy, Ltd.
STREET: 500 West Madison Street, 34th floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: PatentIn Rel CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION:
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CITY: Chicago
STATE: Illinoi.
COUNTRY: USA
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o. 5744580
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Carroll, Stephen
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11022US07/200-70.P3.C2A

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RESULT 2
US-08-477-484B-153
; Sequence 153, Appli
; Patent No. 5756699
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Best Local Similarity
                                                                                                                                                                                       APPLICATION NUMBER: US 08/425,336
FILING DATE: 18-APR 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/064,691
FILING DATE: 12-MAY-1993
PRIOR APPLICATION NUMBER: US 07/988,430
APPLICATION NUMBER: US 07/988,430
ETILING DATE: 09-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/901,707
ETILING DATE: 105-07/901,707
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                    APPLICATION NUMBER: US 07/787,567
FILING DATE: 04-NOV-1991
ATTORNEY/AGENT INFORMATION:
NAME: MCNICholas, Janet M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS:
LENGTH: 104 amino acids
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TELECOMMUNICATION INFORMATION:
REGISTRATION NUMBER: 32,918
REFERENCE/DOCKET NUMBER: 11022US07/200-70.P3.C2A
TELEPOOMMUNICATION INFORMATION:
TELEPHONE: 312/707-8889
                                                                                                                                                      FILING DATE: 19-JUN-1992 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating TITLE OF INVENTION: Proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Carroll, Stephen F. APPLICANT: Studnika, Gary M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US/08/477,484B FILING DATE: 07-JUN-1995
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STATE: Illinois
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                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE:
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TELEFAX: 312/707-9155
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100.0%; Pred. No.
tive 0; Mismatc
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; MOLECULE TYPE:
US-08-477-484B-153
                        Qy
                                                                                                                           ; MOLECULE TYPE: US-08-107-669D-17
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                                                      Query Match
Best Local S
Matches 4
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Best Local Similarity
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                               TELEFAX: 202/371-2540
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/10906
FILING DATE: 14-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/808,464
FILING DATE: 13-DEC-1991
                                                                                                                                                                                                                                                                                              FILING DATE: 13-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Michele A. Cimbala
                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION DATA: APPLICATION NUMBER: US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Studnication:
                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                     TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQUENCES:
                                                                                                                                                                                                                    ELECOMPOSE: 202/7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY:
ZIP: 200
                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              85 SYXG 88
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85 SYXG
                                                                                                                                                       TOPOLOGY:
                                                                                                                                                                                                                                                                  REGISTRATION NUMBER: 33
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CITY: Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSEE:
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                 5 syxg 8
                                                                                                                                                                                LENGTH:
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                                                                   Similarity
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                                                                                                                                                                   : 104 amino acids
amino acid
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88
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1100 New York Ave., N.W., Suite 600
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                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   United States of America
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/ENTION: Modified Antibody Variable Domains (as amended)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                               IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
PatentIn Release #1.0, Version #1.25
                                                                                                                                                       linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     linear
                                                                                                                                                                                                                            202/371-2600
02/371-2540
                                                                                                                                        protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     protein
                                                                                                                                                                                                                                                                                                                                                                                                                         13-AUG-1993
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                                                                   37.5%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        67
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                                                                                                                                                                                                                                                                              33,851
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 Mismatches

                                                                     Score 3; ; Pred. No.
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                                                                                                                                                                                                                                                                     0610.1000001/MAC
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                                                                     DB 1; Le
b. 1.3e+02;
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b. 1.3e+02;
                                                                                   Length 104;
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                                                       Indels
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; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-472-788A-17
                                                                                                                                                                                                                                                                                                                                                                                           RESULT
                                                                                                                                                                                                                                                                                                                                                   US-08-477-5318-17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                             Sequence 17, Application US/084775318 Patent No. 5821123
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Best Local Similarity
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                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: Studnicka,
TITLE OF INVENTION: MC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/08/472,788A FILLING DATE: 07-JUN-1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA: 08/082,842
APPLICATION NUMBER: 08/082,842
FILLING DATE: 23-JUN-1993
PRIOR APPLICATION NUMBER: PCT/US92/10906
FILLING DATE: 14-DEC-1992
PRIOR APPLICATION DATA: 15071676 APPLICATION DATA: 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                              NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS: Sterne, K
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CURRENT APPLICATION DATA:
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REFERENCE/DOCKET NUMBER: 06
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202/371-2600
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NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 13-DEC-1991
ATTORNEY/AGENT INFORMATION:
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OPERATING SYSTEM:
SOFTWARE: PatentI
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   CITY:
                                    STREET:
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Washington
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                             E: Sterne, Kessler, Goldstein and Fox P.L.L.C 1100 New York Ave., N.W., Suite 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        E: Sterne, Kessler, Goldstein and Fox P.L.L. 1100 New York Ave., N.W., Suite 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         104 amino acids
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                                                                                                                                        (a, Gary M.
Modified Antibody Variable Domains (as
67
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                                                                                                                                                                                                      APPLICANT: Carroll, July
APPLICANT: Studnika, Gary M.
APPLICANT: Studnika, Gary M.
TITLE OF INVENTION: Inmunotoxins Comprising RII
TITLE OF INVENTION: Proteins
NUMBER OF SEQUENCES: 173
CORRESPONDENCE ADDRESS:
Andrews, Held & Malloy, Ltd.
Andressee: McAndrews, Held & Malloy, Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                  Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
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                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 104 amino acid
                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTMARE: Patentin Release #1.0,
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PRIOR APPLICATION DATA:

PCT/US92/10906
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CURRENT APPLICATION DATA:
                                               CURRENT APPLICATION DATA:
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APPLICATION NUMBER: US 07/808,464
FILING DATE: 13-DEC-1991
ATTORNEY/AGENT INFORMATION:
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MEDIUM TYPE: Floppy disk
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                                                                                                                                                                                      CITY: Chicago
STATE: Illinois
            APPLICATION NUMBER: US/08/646,360 FILING DATE: 13-MAY-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            85 SYXG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REGISTRATION NUMBER: 33,851
REFERENCE/DOCKET NUMBER: 06
                                                                                                                                                                      COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 14-DEC-1992
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE:
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CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER:
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o. 5837491
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     amino acid
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                                                                                                                                                                                                                         500 West Madison Street, 34th floor
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                                                                                                                                                                    USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            37.5%;
                                                                                                                                                                                                                                                                                                           Immunotoxins Comprising Ribosome-Inactivating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       08/107,669
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; Pred. No. 1.3e+02;
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                                                               Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 104;
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APPLICATION NUMBER: 1 FILING DATE: 12-MAY-PRIOR APPLICATION DATA:

UMBER: PCT/US94/05348 12-MAY-1994

FILING DATE:

12-MAY-1993

us 08/064,691

APPLICATION NUMBER:

PRIOR APPLICATION DATA:

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Дb
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US-08-082-842A-17
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: MC NUMBER OF SEQUENCES: & CORRESPONDENCE ADDRESS:
                                                                                                                                                              COMPOTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0,
CURRENT APPLICATION DATA:
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REFERENCE/DOCKET NUMBER: 200
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/707-8889
                                             PRIOR APPLICATION DATA:
APPLICATION NUMBER: 1
FILING DATE: 14-DEC--
PRIOR APPLICATION DATA:
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MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATTORNEY/AGENT INFORMATION: NAME: McNicholas, Janet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE: 19-JUN-1992
PRIOR APPLICATION DATA:
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APPLICATION NUMBER:
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TTORNEY/AGENT INFORMATION:
                                                                                                                               APPLICATION NUMBER: US/08/082,842A FILING DATE: 23-JUN-1993
                                                                                                                                                                                                                                                                                                   STREET: 1100 New CITY: Washington STATE: D.C.
               APPLICATION NUMBER: US 07/808,464 FILING DATE: 13-DEC-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         85 SYXG 88
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STRANDEDNESS: dou
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                                                                                                                 CLASSIFICATION:
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20005-3934
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VENTION: Modified Antibody Variable Domains
                                                                                                                                                                                PatentIn Release #1.0, Version #1.25
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                                                             14-DEC-1992
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09-DEC-1992
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100.0%; Pred. No...
170 0; Mismatches
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                                                                                PCT/US92/10906
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o. 1.3e+02;
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US-08-839-765-153
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GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: Patentin Relea
CURRENT APPLICATION DATA:
APPLICATION UMBER: US/O
FILING DATE: 15-APR-1997
CLASSIFICATION: 530
                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08,
FILING DATE: 18-APR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08,
FILING DATE: 12-MAY-1993
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STREET: Chicago
CITY: Chicago
TMATE: Illinois
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Better, Marc D. APPLICANT: Carroll, Stephen APPLICANT: Studnika, Gary M
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TELECOMMUNICATION INFORMATION: TELEPHONE: 312/707-8889
                                                                                     FILING DATE: 04-NOV-1991 ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES:
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OPERATING SYSTEM:
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                                   NAME: MCNicholas, Janet M.
REGISTRATION NUMBER: 32,918
REFERENCE/DOCKET NUMBER: 11022US09/200-70.P3.C3
                                                                                                                                                             APPLICATION NUMBER: US 07/901,707 FILING DATE: 19-JUN-1992
                                                                                                                                                                                                                 APPLICATION NUMBER: US 0 FILING DATE: 09-DEC-1992
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: Cimbala, Michele A. REGISTRATION NUMBER: 33,8
                                                                                                                          APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
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SYSTEM: PC-DOS/MS-DOS
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Best Local Similarity 100.
Matches 4; Conservative
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                          PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/787,567

FILING DATE: 04-NOV-1991

ATTORNEY/AGENT INFORMATION:

NAME: MCNICHOLDS, Janet M.

REGISTRATION NUMBER: 32,918

REFERENCE/DOCKET NUMBER: 3200-70.P4

TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                               CLASSIFICATION DATA:
PRIOR APPLICATION NUMBER: 08/646,360
APPLICATION NUMBER: 13-MAY-1996
FILING DATE: 13-MAY-1996
PILING DATE: 13-MAY-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                  OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PutentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                         PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/988,430
APPLICATION NUMBER: US 07/989,430
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/901,707
FILING DATE: 19-JUN-1992
                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/064,691
FILING DATE: 12-MAY-1993
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDIUM TYPE:
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TELEPHONE: 312/707-8889
TELEFAX: 312/707-9155
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500 West Madison Street, 34th floor
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SYSTEM: PC-DOS/MS-DOS
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                                                200-70.P4
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; Pred. No.
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; LOCATION: 73
; OTHER INFORMATION:
; OTHER INFORMATION:
US-08-428-188-1
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Matches
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                                                                                                                                                                               TELEFAX: (202) 393-5350
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 226 amino acids
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TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                           REFERENCE/DOCKET NUMBER: 76
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                   CLASSIFICATION: 435
PRIOR APPLICATION DATE: APPLICATION UNMBER: FR 9:
FILING DATE: 03-SEP-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: PatentIn Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
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APPLICANT:
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                                                                       FEATURE:
                                                                                                                              MOLECULE TYPE:
                                                                                      FRAGMENT TYPE:
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                                                                                                                                                           STRANDEDNESS:
                                                                                                                                                                         TYPE: amino acid
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4; Conservative
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100.0%; Pr
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Method for the Specific Immunoassay of Human Plasma Glutathione Peroxidase, Kit for
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             /note= "Amino acid at position 73
is selenocysteine"
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US-08-755-545-8

Sequence 8, Application US/08165545

; Patent No. 5424396

; GENERAL INFORMATION:
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                                                                                                                                                               RESULT 12
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US-08-895-590-5
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Best Local Similarity 100.
4; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION:
PRIOR APPLICATION NUMBER: US/08/374
APPLICATION NUMBER: US/08/374
FILING DATE: 19-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: MCGOWAN, MAlcolm M.
REGISTRATION NUMBER: 39,300
REFERENCE/DOCKET NUMBER: 0226
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-836-6620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: 703-836-2021 INFORMATION FOR SEQ ID NO: 5:
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APPLICANT:
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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TITLE OF INVENTION: Genes Encoding an
NUMBER OF SEQUENCES: 101
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                                                                                                                                                                                                                                                                  72 SYXG 75
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: amino acid
STRANDEDNESS: si
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COUNTRY: USA
ZIP: 22314-3187
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CITY: Alexandria
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Mamoru TOMITA et al.
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Ren, Dejian
Zheng, Wei
                                                                                                                                                                                                                                                                                                                                                                                               Conservative
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                                                                                                                                                                                                                                                                                                                                                                              37.5%; 50
100.0%; Pr
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100.0%; Pred. No.
tive 0; Mismatc
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b; Pred. No. 4.3
0; Mismatches
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lo. 4.3e+02;
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constant of the constant of
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INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
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CHROMOSOME/SEGMENT:
MAP POSITION:
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REFERENCE/POCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-8850
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OPERATING SYSTEM: MS-DO SOFTWARE: DisplayWrite CURRENT APPLICATION DATA: APPLICATION NUMBER: US/
                                                                                                                                                     PUBLICATION INFORMATION
                                                                                                                                                                                                                               FEATURE:
                                                                                                                                                                                                                                                                                                                                  ORGANELLE:
IMMEDIATE SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FRAGMENT TYPE:
ORIGINAL SOURCE:
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MOLECULE TYPE:
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MEDIUM TYPE: Diskett
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ANTI-SENSE:
                                                                                          JOURNAL: VOLUME:
                                                                                                                         AUTHORS:
TITLE:
                                                                                                                                                                                                                                                                                                                                                                TISSUE TYPE:
CELL TYPE:
CELL LINE:
                                                PAGES:
DATE:
                                                                                                                                                                   NAME/KEY:
LOCATION:
IDENTIFICATION METHOD:
OTHER INFORMATION:
DOCUMENT NUMBER: FILING DATE: PUBLICATION DATE:
                                                                                                                                                                                                                                              UNITS:
                                                                                                                                                                                                                                                                                                      CLONE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                         STRAIN:
INDIVIDUAL ISOLATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: amino acid
STRANDEDNESS: sir
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Warren M. Cheek, REGISTRATION NUMBER: 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE:
                                                                              ISSUE:
                                                                                                                                                                                                                                                                                                                                                                                                                          DEVELOPMENTAL STAGE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER:
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805 Fifteenth Street, N.W., #700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              linear
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Antimicrobial Agent
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US-08-256-771-17
; Sequence 17, Application US/08256771
; Patent No. 5656591
; GENERAL INFORMATION:
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Best Local Similarity
Conservi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-305-768-27
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Best Local Similarity 100.
Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CLASSIFICATION: 514
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08,
FILING DATE: July 22, 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/305,768
                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 500 kb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                      NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESSE: Wenderoth, Lind & Ponack
ADDRESSEE: Wenderoth Street, N.W., #700
STREET: 805 Fifteenth Street, N.W., #700
                                                                                                                                                                                                                                                                         APPLICANT: Mamoru TOMITA et al.
TITLE OF INVENTION: ANTIMICROBIAL AGENTS AND METHOD FOR TREATING
TITLE OF INVENTION: PRODUCTS THEREWITH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: Antifungal Peptides NUMBER OF SEQUENCES: 31
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                                                                                                                                                                    CITY: Washington STATE: D.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: amino acid
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                                                                                      COMPUTER:
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                                                                                                                                                      COUNTRY:
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                                                                                 IBM Compatible
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100.0%; Pred. No. 1.
tive 0; Mismatches
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     US/08/256,771
2, 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            No. 1.6e+05;
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Best Local Similarity
Matches 2; Conser
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SEQUENCE CHARACTERISTICS:
LENGTH: 3 amino acids
                                                                              INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
LENGTH: 3 amino acids
TYPE: amino acid
STRANDEDNESS: Single
TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
ADDRESSEE: Ward
                                                                                                                                            REFERENCE/DOCKET NUMBER: TELECOMMUNICATION INFORMATION: TELEPHONE: 202-371-8850
                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/08/31
FILING DATE: APRIL 11, 1995
CLASSIFICATION: 252
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-8850
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATTORNEY/AGENT INFORMATION:
NAME: Warren M. Cheek, J
REGISTRATION NUMBER: 33,
                                                                                                                                                                                      FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Warren M. Cheek, J
REGISTRATION NUMBER: 33,
                                                                                                                                                                                                                                                                                                                                  SOFTWARE: Wordperfect 5.1 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM: MEDIUM TYPE: Diskette,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Mamoru TOMITA et al TITLE OF INVENTION: ANTIOXIDAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION: 514
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STREET: 805 Fift
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STRANDEDNESS: single TOPOLOGY: linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: amino acid
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100.0%; Pr
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Pred. No.
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RESULT 17

US-08-767-903-27

: Sequence 27, Application US/08767903

: Patent No. 6020312
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COTHER INFORMATION: /n:
COTHER INFORMATION: pe
US-08-381-984-17
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Best Local Similarity
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Best Local Similarity
              CLASSIFICATION: 514
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLASSIFICATION: 435
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS
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                                                        COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/767,903
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/871,163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
SEQUENCE CHARACTERISTICS
                                                                                                                                                                      TITLE OF INVENTION: Antifungal Peptides NUMBER OF SEQUENCES: 47
                                                                                                                                                                                                     APPLICANT:
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                                            FILING DATE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: amino acid
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100.0%; Pr
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100.0%; Pred. No.
tive 0; Mismatc
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peptides including the specified peptide as a fragment therec
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Pred. No.
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US-07-895-300A-8
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PCT-US95-11724-27
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Best Local S
Matches 2
                                                                                                                                                                                                                              Sequence 8, Application Patent No. 5279823
GENERAL INFORMATION:
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INFORMATION FOR SEQ ID NO:
COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
                                                                                                                                                                     APPLICANT: Frenz, John
APPLICANT: Shire, Steven J.
APPLICANT: Sliwkowski, Mary
TITLE OF INVENTION: PURIFIE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1
                                                                                                                                         CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE CHARACTERISTICS:
LENGTH: 3 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CURRENT APPLICATION DATA:
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                                                                                                                                                        NUMBER OF SEQUENCES:
                                                                        STREET: 460 Point San Bru
CITY: South San Francisco
STATE: California
                                                                COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
les 2; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STRANDEDNESS:
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TOPOLOGY: li
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0; Mismatches
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NAME: Hensley, Max D.

RECISTRATION NUMBER: 27,043
REFERENCYDOCKET NUMBER: 747
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415,725-1994
TELLEFAX: 415,952-981
INFORMATION FOR SEQ IN NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 4 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
US-07-895-300A-8
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Best Local Similarity
"arches 2; Conserve
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US-08-165-545-7
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                INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                              ATTORNEY/AGENT INFORMATION:
NAME: Warren M. Cheek, Jr.
REGISTRATION NUMBER: 33,367
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELECOMMUNE: 202-371-8850
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/
FILING DATE: 19920608
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                             STREET: BUD...
STREET: Washington
STATE: D.C.
COUNTRY: U.S.A.
21P: 20005
                                                                                                                                                                                                    CLASSIFICATION: 530
PRIOR APPLICATION NUMBER: 1
                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM: MEDIUM TYPE: Diskette,
                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: MANOTU TOMITA et al.
APPLICANT: MANOTU TOMITA et al.
TITLE OF INVENTION: Antimicrobial Agent
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wenderoth, Lind & Ponack
STREET: 805 Fifteenth Street, N.W., #700
                                                                                                                                                                                                                                                                                        SOFTWARE: DisplayWrite CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM Compatible OPERATING SYSTEM: MS-DOS
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                                                                                                                                                                                                                                                                         APPLICATION NUMBER:
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4 amino acids
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100.0%; Pred. No. 1.6e+05;
tive 0; Mismatches 0;
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; PUBLICATION DATE:
; RELEVANT RESIDUES IN SEQ ID
US-08-165-545-7
                                                                                                                                                                                                                                                                      RESULT
                                                                                                                                                                                                                                                        US-08-190-802A-265
                                                                                                                                                                                                              Sequence 265, Application US/08190802A Patent No. 5519003 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local :
COUNTRY: USA
ZIP: 94306-0850
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
                                                                                                  CORRESPONDENCE ADDRESS:
ADDRESSEE: Dehlinger & Associates
STREET: P.O. Box 60850
                                                                                                                                                     APPLICANT: Mochly-Rosen, Daria
APPLICANT: Ron, Dorit
TITLE OF INVENTION: WD-40 - Der
TITLE OF INVENTION: Thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IDENTIFICATION METHOD:
OTHER INFORMATION:
PUBLICATION INFORMATION:
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CHROMOSOME/SEGMENT:
MAP POSITION:
                                                                                                                                           NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FRAGMENT TYPE: ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANELLE:
IMMEDIATE SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ANTI-SENSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE:
                                                                       STREET: P.O. BOX
CITY: Palo Alto
STATE: CA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CELL TYPE:
CELL LINE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      JOURNAL:
VOLUME:
ISSUE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY:
LOCATION:
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CLONE:
                                                                                                                                                                                                                                                                                                                                                                Local Similarity les 2; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DOCUMENT NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PAGES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              UNITS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TISSUE TYPE:
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STRANDEDNESS: si
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AUTHORS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INDIVIDUAL ISOLATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                    Conservative
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                                                                                                                                                        \mathsf{WD}\text{-}40 - Derived Peptides and Uses Thereof
                                                                                                                                            265
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; Pred. No
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                                                                                                                                                                                                                                                                                                                                                                   Mismatches
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No. 1.6e+05;
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CURRENT APPLICATION DATA:

OPERATING SYSTEM: SOFTWARE: Patentl

PatentIn Release #1.0,

Version #1.25

PC-DOS/MS-DOS

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RESULT 22
US-08-332-071B-16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
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MOLECULE TYPE: pepu
HYPOTHETICAL: YES
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                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATION:
COMPUTER: FROM PC COMPATION:
COMPUTER: FROM PC COMPATION:
COMPUTER: FOR PC-DOS/MS-DOS
SOFTWARE: PATENTIAN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/332,071B
FILING DATE: 01-NOV-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ANTI-SENSE: NO ORIGINAL SOURCE:
       CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: CHAPIN, MARLANA K.
-REGISTRATION NUMBER: 35,843
REFERENCE/DOCKET NUMBER: 326/216933
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
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LENGTH: 4 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE/DOCKET NUMBER: 86
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATTORNEY/AGENT INFORMATION: NAME: Fabian, Gary R.
                                                                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
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                                                                                                                                                                                                                                                      ZIP: 20005
                                                                                                                                                                                                                                                                         COUNTRY:
                                                                                                                                                                                                                                                                                                         CITY: WASHINGTON
                                                                                                                                                                                                                                                                                                                         STREET:
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STRANDEDNESS: sir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Fabian, Gary R. REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                       STATE: D.C
                                                                                                                                                                                                                                                                                                                                         ADDRESSEE:
TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INDIVIDUAL ISOLATE: WRTA peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2:
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1100 NEW YORK AVENUE, N.W.
                                                                                                                                                                                                                                                                         USA
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KESSLER, HORST
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01-FEB-1994
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USE OF D-GLUCOPHRANURONIC ACIDS AND
THEIR DERIVATIVES FOR INCORPORATION IN PHARMACOLOGICALLY
ACTIVE PEPTIDES AND THEIR SALTS
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100.0%; Pred. No.
tive 0; Mismatch
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RESULT 23
US-08-176-938-20
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Best Local Similarity
Watches 2; Conserva
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                                                                            US-08-176-938-20
                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:

NAME: Sterner Ph.D., Richard J.

REGISTRATION NUMBER: 35.372

REFERENCE/DOCKET NUMBER: 110326-

TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-819-8783

TELEPAX: 212-354-8113

INFORMATION FOR SEQ ID NO: 20:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5-08-1,
Sequence 20, Apprint No. 5602099
Query Match
Best Local Similarity
Matches 3; Conserv
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GENERAL INFORMATION:
ADDITIONT: Schiller, Peter W.
ADDITIONT: Schiller, Peter W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEX: 6714627 CUSH
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                          FEATURE:
                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                     MOLECULE TYPE:
                                                                                                                                                                                                                                      FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Boloca
                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: FILING DATE: 04-JAN CLASSIFICATION: 514
                                                                                            OTHER INFORMATION: OTHER INFORMATION:
                                                                                                                                                                     OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CITY: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: amino acid
STRANDEDNESS: sir
                                                                                                                         LOCATION:
                                                                                                                                          NAME/KEY:
                                                                                                                                                                                                                    NAME/KEY: Modified-site
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                                                                                                                                                                                                      LOCATION:
                                                                                                                                                                                                                                                                                             LENGTH:
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                                                                                                                                                                                                                                                                   amino acid
)GY: linear
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                                                                                                                                                                                                                                                                                                 4 amino acids
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1155 Avenue of the Americas
25.0%; Score 2; DB 1; Lei
llarity 100.0%; Pred. No. 1.6e+05;
Conservative 0; Mismatches 0;
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                                                                                                                                          Modified-site
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                                                                                                                                                                                                                                                  peptide
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100.0%;
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/note= "1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid"
                                                                                          /label= Phg
/note= "phenylglycine"
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5. 1.6e+05;
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Indels

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Gaps

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RESULT 24
US-08-215-137-11
; Sequence 11, Appli
; Patent No. 5614370
               Query Match
Best Local Similarity
Conserve
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                                                                                                             LOCATION: 4
OTHER INFORMATION:
OTHER INFORMATION:
US-08-215-137-11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: (908) 594-4720
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE:
HYPOTHETICAL: N
ANTI-SENSE: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Bencen, Gerard H
REGISTRATION NUMBER: 35,746
REFERENCE/DOCKET NUMBER: 19:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (908) 594-3901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Konteatis, Zenon
APPLICANT: Siciliano, Salvatore J
APPLICANT: Springer, Martin S
TITLE OF INVENTION: ASSAY TO IDENTIFY HUMAN C5A ANTAGONISTS
TITLE OF INVENTION: AND AGONISTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOFTWARE: Patentin Rel
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                            PEATURE: Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                FRAGMENT TYPE:
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                                                                                                                                                                                                             OTHER INFORMATION:
                                                                                                                                                                                                                                                                                            OTHER INFORMATION: /label- Tic OTHER INFORMATION: /note- "tet:
                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: amino acid
STRANDEDNESS: si
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: U
ZIP: 07065
                                                                                                                                                                              NAME/KEY:
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1 wr 2
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: United States of America
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                           25.0%; Score 2; DB 1; Length 4; ilarity 100.0%; Pred. No. 1.6e+05; Conservative 0; Mismatches 0; Indel:
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/note- "D-arginine"
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/note- "D-cyclohexylalanine"
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; OTHER INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: (619) 535-8949 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
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APPLICANT: Houghten, R
APPLICANT: Houghten, R
TITLE OF INVENTION: NC
TITLE OF INVENTION: NC
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION: 530
ATTORNBY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-TP
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
LENGTH: 4 amino acids
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4370 La Jolla Village Drive, Suite
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No. 5641861el Mu Opioid Receptor Ligands:
Agonists and Antagonists
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the C-terminal."
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Search completed: January 14, 2002, 07:57:31 Job time: 376 sec

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 length: 0
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major protein anti
blood cell protein
FMRFamide-related
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nitrate reductase
Ig heavy chain CRD
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Query Match Best Local Matches	RESULT 2 E60274 major protein antigen MPT C; Species: Mycobacterium C;Date: 11-Dec-1992 # sequ C;Accession: E60274 R;Nagai, S.; Wiker, H.G.; Infect. Immun. 59, 372-38 A;Title: Isolation and pa A;Reference number: A6027 A; Accession: E60274 A; Status: preliminary A; Molecule type: protein A; Residues: 1-5 < NAG>	Query Match Best Local S Matches 4 Qy 5 ayx9 Db 64 AYXG	RESULT 1 A41073 A41073 thyroglobulin - rabbit (fragme C; Species: Oryctolagus cunicul C; Date: 12-Jun-1992 #sequence_C; Accession: A41073 R; Dunn, A.D.; Crutchfield, H.E. J. Biol. Chem. 266, 20198-2020 A; Title: Thyroglobulin process A; Reference number: A41073; MU A; Accession: A41073 A; Status: preliminary A; Molecule type: protein A; Residues: 1-13 <dun c;="" superfamily:="" th="" thyroglobulin;<=""><th></th><th>55444444443333333333333333333333333333</th></dun>		55444444443333333333333333333333333333
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Similarity 2; Conserva	tigen MPT acterium 992 **Sequ 274 * H.G.; er, H.G.; 9, 372-38 on and pa er: A6027 274 inary protein <nags< td=""><td>Conserva 7</td><td>it us #seficion fin A4:</td><td></td><td>22222222222222222222222222222222222222</td></nags<>	Conserva 7	it us #seficion fin A4:		22222222222222222222222222222222222222
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. 0 %	- My ercu re fboe 1991 10	. 0 se	nents llus lrev rev 204, 381ng MUID:		000000000000000000000000000000000000000
Score 2; DB 2; Length 5; ; Pred. No. 2.2e+05; 0; Mismatches 0; Indel	n MPT63 - Mycobacterium tuberculosis (#rium tuberculosis #requence_revision 11-Dec-1992 #text_c H.G.; Harboe, M.; Kinomoto, M. 172-382, 1991 ind partial characterization of major p A60274; MUID:91099989 y ttein	Score 3; DB 2; Length 1; Pred. No. 6.5e+02; 0; Mismatches 0; Inde	(domestic rabbit) (domestic rabbit) (domestic rabbit) (domestic rabbit) (domestic rabbit) (punn, J.T. (1991) (punn, J.T. (1992) (punn)	ALIGNMENTS	A33660 PT0290 S47368 S47378 S47384 PH0786 PC4391 S66558 LFEGW LFEBWC LFEBWT LFE
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R;Minakata, H.; Ikeda, T.; Muneoka, Y.; Kobayashi, M.; Nomoto, FEBS Lett. 323, 104-108, 1993
A;Title: WMamide-1, -2 and -3: novel neuromodulatory peptides A;Reference number: S33244; MUID:93285912
A;Accession: S33245
                                                                                                                                                                                                                  RESULT
S33245
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A;Title: KSAYMRFamide: a novel FMRFamide-related heptapeptide 1
A;Reference number: PC2132; MUID:94235053
A;Accession: PC2132
                                                                                                                                               neuromodulatory peptide wWamide-2 - giant African snail
C:Species: Achatina fulica (giant African snail)
C:nata: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 24-Jul-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Molecule type: protein
A;Residues: 1-7 <MAU>
C;Keywords: amidated carboxyl end
F;7/Modified site: amidated carboxyl end (Phe) #status predicted
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A;Residues: 1-5 <TAY>
A;Residues: 1-5 <TAY>
F;2/Modified site: 3',4',5'-trihydroxyphenylalanine (Tyr) #status experimental
F;4/Modified site: 3',4'-dihydroxyphenylalanine (Tyr) #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Arch. Biochem. Biophys. 324, 228-240, 1995
A;Title: Novel 3,4-di- and 3,4,5-trihydroxyphenylalanine-containing polypeptides
A;Reference number: S68325; MUID:96132650
A;Accession: S68326
               A; Molecule
                              A; Status: preliminary
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C;Accession: PC2132
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C;Date: 19-Mar-1997 #sequence_revision 29-Aug-1997 #text_change 11-Jun-1999
C;Accession: S68326
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A; Molecule type:
A: Residues: 1-9
                                A; Reference number: S66606; A; Accession: S66607
                                                R;Schach, S.; Tshisuaka, B.; Fetzner, S.; Lingens, F.
Eur. J. Biochem. 232, 536-544, 1995
A;Title: Quinoline 2-oxidoreductase and 2-oxo-1,2-dihydroquinoline
A;Reference number: S66606; MUID:96035889
                                                                                                                    quinoline 2-oxidoreductase beta chain - Comamonas testosteroni (fragment) C;Species: Comamonas testosteroni C;Species: Comamonas testosteroni C;Date: 15-Feb-1997 #sequence_revision 13-Mar-1997 #text_change 17-Mar-1999 C;Date: 15-Feb-1997 #text_change 17-Mar-1999 C;Accession: S66607
                                                                                                                                                                                                                                                                                                                                                                                                                A; Experimental source: B lymphocyte C; Keywords: heterotetramer; immunoglobulin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    R;Yamada, M.; Wasserman, R.; Reichard, B.A.; S
J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ig heavy chain CRD3 region (clone 6-100) - human (fragment) C;Species: Homo sapiens (man) C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_chC;Accession: PT0311
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nitrate reductase (NADH) inhibitor - spinach (fragment)
C;Species: Spinacia oleracea (spinach)
C;Date: 04-Dec-1997 #sequence_revision 12-Dec-1997 #text_change 30-Jan-1998
C;Accession: S68802
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A; Residues: 1-8 < YAM>
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A; Residues: 1-8 <BAC>
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C:Accession: C45474
C:Accession: C45474
R;Pellerin, S.; Lafeuillade, B.; Scherrer, N.; Ga
J. Biol. Chem. 268, 4304-4310, 1993
A;Title: Corticotropin induced secreted protein,
A:Deference number: A45474; MUID:93179438
                                                                            RESULT 11
C45474

thrombospondin 2 - bovine (fragment)
thrombospondin 2 - bovine (fragment)
N;Alternate names: corticotropin-induced secreted protein (CISP); thrombospondin
C;Species: Bos primigenius taurus (cattle)
C;Date: 21-Sep.193 #sequence_revision 18-Nov-1994 #text_change 14-Aug-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       neuropeptide Grb-AST B3 - two-spotted cricket
C:Species: Gryllus bimaculatus (two-spotted cricket)
C:Dato: 26-Jan-1996 #sequence_revision 26-Jan-1996 #1
C:Accession: C57444
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C57444
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J. Biol. Chem. 270, 21103-21108, 1995
A;Title: A fumily of neuropeptides that inhibit juvenile
A;Reference number: A57444; MUID:95403341
A;Accession: B57444
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C;Species: Gryllus bimaculatus (two-spotted cricket)
C;Date: 26-Jan-1996 #sequence_revision 26-Jan-1996 #
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A:Accession: C57444
A:Status: preliminary
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J. Blol. Chem. 270, 21108, 1995
A;Title: A family of neuropeptides that inhibit juvenile
A;Reference number: A57444; MUID:95403341
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A;Molecule type: protein
A;Residues: 1-9 <LOR>
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A;Status: preliminary
A;Status: preliminary
A;Status: preliminary
A;Status: preliminary
A;Status: preliminary
A;Status: protein
A;Residues: 1-10 <PEL>
A;Residues: 1-10 <PEL>
A;Experimental source: adrenocortical cells
A;Experimental source: adrenocortical cells
A;Note: sequence extracted from NCBI backbone (NCBIP:125844)
A;Note: sequence extracted from NCBIP: sequence (NCBIP:125844)
A;Note: sequence extracted from NCBIP: sequence (NCBIP:125844)
A;Note: sequence extracted from NCBIP: sequence (NCB
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C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_c
C;Accession: PT0309
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A;Residues: 1-10 <STR
C;Keywords: 91ycosidase; hydrolase
F;4/Active site: Tyr #status predic
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C;Species: Aspergillus sp.
C;Date: 28-Oct_1996 #sequence_revision 13-Mar-1997 #text_change 17-Mar-1999
                                                                                                                                                                                                                                                       A; Experimental source: C; Keywords: heterotetra
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A; Residues: 1-10 < YAM>
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FEBS Lett. 382, 164-166,
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64-166, 1996
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b. 2e+03;
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C; Accession: PT0081

C; Raccession: PT0081

R; Tsugita, A.; Kamo, M.; Kawakami, M.; Ohki, Y.

submitted to JIPID, December 1995

A; Description: Two dimensional electrophoresis of plant proteins A; Reference number: PN0173

A; Reference number: PN0173

A; Accession: PT0081

A; Molecule type: protein

A; Residues: 1-11 <TSU>
A; Residues: 1-11 <TSU>
A; Residues: 1-11 <TSU>
A; Residues: acetylated amino end

F; 1/Modified site: acetylated amino end (Ser) #status experimenta
                                                                                                                                                                                                                                                                                                      C;Species: Saccharomyces cerevisiae
C;Date: 09-Oct-1997 #sequence_revision 24-Oct-1997 #text_change 14-Nov-1997
C;Accession: S78026
   δÃ
                                                                                                                              A; Genome: n
C; Keywords:
                                                                                                                                                                 A; Residues:
C; Genetics:
                                                                                                                                                                                  A; Molecule type: protein A; Residues: 1-11 < KIT>
                                                                                                                                                                                                                   A; Reference number: A; Accession: S78026
                                                                                                                                                                                                                                                      Eur. J. Biochem. 245, 44
A; Title: Identification
                                                                                                                                                                                                                                                                     R;Kitakawa, M.; Graack, H.R.; Grohmann, L.; Goldschmidt-Reisin, S.; Herfurth, E.; Wittme Eur. J. Biochem. 245, 449-456, 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   protein QA300023 - Arabidopsis thaliana (fragment) C;Species: Arabidopsis thaliana (mouse-ear cress) C;Date: 07-Feb-1996 #sequence_revision 19-Apr-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A:Title: Conservation of coding and transcriptional control sequences within the snRNP A:Reference number: A44368; MUID:93122798
A;Accession: I48778
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-10 <RES>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C;Species: Mus musculus (house mouse)
C;Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 05-Nov-1999
C;Accession: 148778
R;Fautsch, M.P.; Thompson, M.A.; Holicky, E.L.; Schultz, P.J.; Hallett, J.B
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                                        Matches
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100.0%;
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C;Species: Conus imperialis (imperial cone)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R;Whetsell, M.; Mosley, R.L.; Whetsell, L.; Schaefe: Mol. Cell. Biol. 11, 5902-5909, 1991
A;Title: Rearrangement and junctional-site sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               T-cell receptor gamma chain (1t.57) - mouse (fragment) C;Species: Mus musculus (house mouse) C;Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #te C;Accession: B41946
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Biochem. Biophys. Res. Commun. 167, 777-783, 1990
A;Title: A novel cardio-excitatory peptide isolated from the atria of the African
A;Reference number: A34662; MUID:90211261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Achatina cardio-excitatory peptide-1 - giant African snail C;Species: Achatina fulica (giant African snail) C;Date: 22-Jun-1990 #sequence_revision 22-Jun-1990 #text_change 11-Jul-1997 C;Accession: A34662 R;Fujimoto, K.; Ohta, N.; Yoshida, M.; Kubota, I.; Muneoka, Y.; Kobayashi, NBiochem. Biophys. Res. Commun. 167, 777-783, 1990
A; Note: structure confirmed by chemical synthesis C; Comment: This alpha-conotoxin, as an acetylcholine receptor inhibitor,
                                          A; Molecule type: protein A; Residues: 1-12 <MCI>
                                                                                   A; Accession: A53709
                                                                                                        J. Biol. Chem. 269, 16733-16739, 1994
A; Title: A nicotinic acetylcholine receptor
A; Reference number: A53709; MUID:94266889
                                                                                                                                                                                         C; Accession: A53709
                                                                                                                                                                                                                                                   alpha-conotoxin ImI - cone shell (Conus imperialis)
N;Alternate names: alpha-CTx-ImI
                                                                                                                                                                                                                                                                                              A53709
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A; Accession: B41946
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A; Residues: 1-11 <FUJ>
C; Keywords: amidated carboxyl end
F;11/Modified site: amidated carb
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                                                                                                                                                                    R; McIntosh, J.M.; Yoshikami, D.; Mahe, E.; Nielsen, D.B.; Rivier, J.E.; Gray,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Molecule type: DNA
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                                                                                                                             of
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plastocyanin 2 - Arabidopsis thaliana (fragment)
C:Species: Arabidopsis thaliana (mouse-ear cress)
C:Date: 30-Jun-1992 #sequence_revision 06-Jan-1995 #text_change
C:Accession: PA0037
R:Kamo, M.; Kawakami, T.; Miyatake, N.; Tsugita, A.
submitted to JIPID, July 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C;Superfamily: alpha-conotoxin C;Keywords: acetylcholine receptor inhibitor; amidated carboxyl end; E;2-8,3-12/Dlsulfide bonds: #status experimental F;12/Modified site: amidated carboxyl end (Cys) #status experimental
                                                                                     RESULT
PA0037
                                                                                                                                                                                                                                                                                                                                                                                                      acidic ribosomal P2-like protein - Arabidopsis thaliana (fragment) C;Species: Arabidopsis thaliana (mouse-ear cress) C;Datc: 30-Jun-1992 *sequence_revision 06-Jan-1995 *text_change 11-Apr-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Moleculo type: protein A; Residues: 1-12 <SCH>C; Keywords: chloroplast;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        photosystem II 3.7K protein - spinach (fragment)
C:Species: Spinacia oleracea (spinach)
C:Date: 01-Dec-1989 #sequence_revision 01-Dec-19
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A; Accession: PA0019
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R:Kamo, M.; Kawakami, T.; Miyatake, N.; Tsugita, submitted to JIPID, July 1994
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A:Accession: S01122
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R;Schroeder, W.P.; Henrysson,
FEBS Lett. 235, 289-292, 1988
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 c;Species: synthetic
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C.Species: Fusarium sporotrichioides
C.Species: Fusarium sporotrichioides
C.Accession: O5-Aug-1994 #sequence_revision O5-Aug-1994 #text_change 11-Nov-1994
C.Accession: PN0160
R.Fukaya, N.; Chow, L.P.; Sugiura, Y.; Tsugita, A.; Ueno, Y.; Tabuchi, K. submitted to JIPID, May 1994
A.Description: Two dimensional polyacrylamide gel electrophoresis of Fusarium A.Reference number: PN0160
                                                                                                                                                                                                                                                                                                        T-cell receptor beta chain V-D-J region (clone 1) - rat (fragment) C;Species: Rattus norvegicus (Norway rat) C;Date: 09-Oct-1992 #sequence_revision 09-Oct-1992 #text_change 30-May-1997 C;Accession: PH0930 R;Gold, D.P.; Offner, H.; Sun, D.; Wiley, S.; Vandenbark, A.A.; Wilson, D.B. J. Exp. Med. 174, 1467-1476, 1991 A;Title: Analysis of T cell receptor beta chains in Lewis rats with experime A;Reference number: PH0891; MUID:92078857 A;Accession: PH0891
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C; Keywords: protein biosynthesis;
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A;Experimental source: stem
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A; Residues: 1-12 <GOL>
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Cipacesator, Expanylable, S.; Okamoto, A.; Kato, R.; Ogawa, T.; Kuramitsu, S.
J. Blochem. 115, 568-577, 1994
A: Reference muser; JW315; MUD:9434304
A: Reference muser; JW315; MUD:94343304
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WWA1_ACHFU
UF06_MOUSE
CEP1_ACHFU
CXALTY
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01-NOV-1995 (Rel. 32, Last annotation update)
OVIDUCTAL MOTILITY STIMULATING PEPTIDE (LED-OVM).
Leptinotarsa decemlineata (Colorado potato beetle).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insect Pterygota; Neoptera; Endopterygota; Coleoptera; Polyphaga; Cucujiformia; Phytophaga; Chrysomeloidea; Chrysomelinae; Leptinotarsa.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ALL2_CARMA STANDARD; PRT; 7 AA PB-18805; PRT 39, Created) 30-MAY-2000 (Rel. 39, Last sequence update) 30-MAY-2000 (Rel. 39, Last annotation update) CARCINUSTATIN 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Spittaels K., Schoofs L., Grauwels L., Smet H., van Damme J., Proost P., Torrekens S., de Loof A.; "Isolation, identification and synthesis of novel oviductal motility stimulating head peptide in the Colorado potato beetle, Leptinotarsa
                                                                                                                                                                                                                                    TISSUE=Cerebral ganglion, and Thoracic ganglion; MEDLINE=98121193; PubMed=9461295; Duve H., Johnsen A.H., Maestro J.-L., Scott A.G.
                                                                                                                                                                                                                                                                                                                                                                                                     Carcinus maenas (Common shore crab) (Green crab). Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca; Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyu Eubrachyura; Portunoidea; Portunidae; Carcinus.
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P42985;
01-NOV-1995 (Rel.
                      -!- FUNCTION: MAY ACT AS A NEUROTRANSMITTER OR NEUROMODULATOR
-!- SIMILARITY: BELONGS TO THE ALLAROSTATIN FAMILY.
Neuropeptide; Amidation; Multigene family.
MOD_RES 7 7 AMIDATION (POTENTIAL).
                                                                                                                                  allatostatin superfamily in the shore Eur. J. Biochem. 250:727-734(1997).
                                                                                                                                                           "Isolation and identification of multiple neuropeptides allatostatin superfamily in the shore crab Carcinus maer
                                                                                                                                                                                                                                                                                                                             SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                      Eubrachyura; Por
NCBI_TaxID=6759;
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Peptides 12:31-36(1991)
SEQUENCE
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672879CDCB5DDB70 CRC64;
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6B07632B5DD03000 CRC64;
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01-NOV-1995 (Rel. 32, Created)
01-NOV-1995 (Rel. 32, Last sequence update)
01-NOV-1995 (Rel. 32, Last annotation updat
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SEQUENCE
Neuropeptide; Amidation
                                                                                                            parasitic nematode, Ascaris suum.
Biochem. Biophys. Res. Commun. 20
-!- FUNCTION: MYOACTIVE; INDUCES
                                                                                                                                                                                                                    SEQUENCE, AND SYNTHESIS.
MEDLINE=94235053; PubMed-8179635;
Maule A.G., Shaw C., Bowman J.W.,
Geary T.G., Thim L.;
                                                                                                                                                                                                                                                                                                                                                     Panagrolaimoidea;
                                                                                                                                                                                                                                                                                                                                                                         Panagrellus redivivus.
Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida;
                                                                                                                                                                                                                                                                                                                                                                                                                    FMRFAMIDE-LIKE NEUROPEPTIDE PF3 (KSAYMRF-AMIDE).
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Thompson D.P., Shaw C.;
Submitted (MAY-1998) to the SWISS-PROT
-i- FUNCTION: ACTIVE ON NEUROMUSCULATUR
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Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Strongylida;
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30-MAY-2000 (Rel. 39, Last sequence update)
30-MAY-2000 (Rel. 39, Last annotation update)
EMRFAMIDE-LIKE NEUROPEPTIDE PF3 (KSAYMRF-AMIDE).
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30-MAY-2000
                                                                                                                                                                         "KSAYMRFamide: a novel FMRFamide-related living nematode, Panagrellus redivivus, w
                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=6233;
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                                                               MUSCLE TENSION INCREASE. SIMILARITY: BELONGS TO THE
                                               FAMILY
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TO THE FARP (FMRE
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                                                                 (FMRFAMIDE RELATED PEPTIDE)
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01-NOV-1995 (Rel. 32, Last sequence update)
01-NOV-1995 (Rel. 32, Last annotation update)
01-NOV-1995 (Rel. 32, Last annotation update)
MYOTROPIC NEUROPEPTIDE 1 (LED-MNP-I).
Leptinotarsa decemilneata (Colorado potato beetle).
Leptinotarsa decemilneata (Colorado potato beetle).
Eukaryota: Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota: Neoptera; Endopterygota; Coleoptera; Polyphaga;
Cucujiformia; Phytophaga; Chrysomeloidea; Chrysomelidae;
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P42984;
01-NOV-1995
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Grauwels L., van Leuven F., de Loof A.;
"Identification, characterization, and immunological localization a novel myotropic neuropeptide in the Colorado potato beetle, Leptinotarsa decemilneata.;
Poptides 16:365-374(1995).
-I- FUNCTION: MYOTROPIC PEPTIDE. STIMULATES THE CONTRACTIONS OF TH
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MEDLINE-93265912; PubMed-8495720; Minakata H., Ikeda T., Muneoka Y., Kobayashi "Mwamide-1, -2 and -3: novel neuromodulatory gangila of the African giant snail, Achatina FEBS Lett. 323:104-108(1993).
                                                                                                                                                                                                Achatina fulica (Giant African snail).
Eukaryota; Metazoa; Mollusca; Gastropoda;
Achatinacea; Achatinidae; Achatina.
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                                                                                         TISSUE-Ganglion;
MEDLINE-93265912;
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P38644;
01-OCT-1994 (Rel. 30, 01-OCT-1994 (Rel. 30, 101-FEB-1995 (Rel. 31, 10
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"In MISCELLANEOUS: ON THE 2D-GEL THE DETERMINED PI OF THE PROTEIN IS: 5.2, ITS MW IS: 50 KDA.
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MEDLINE=95009907; PubMed=7523108;
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P50983;
01-OCT-1996
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01-OCT-1996 (Rel. 34, Last sequence up
20-AUG-2001 (Rel. 40, Last annotation
ALPHA-CONOTOXIN IMI.
Conus imperialis (Imperial cone).
Eukaryota; Metazoa; Mollingon
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P22790;
01-AUG-1991
01-AUG-1991
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Biochem. Biophys. Res. Commun. 167:777-783(1990).
-i- FUNCTION: POTENTIATES THE BEAT OF THE VENTRICLE, A EXCITATORY ACTIONS ON THE PENIS RETRACTOR MUSCLE, MUSCLE AND THE IDENTIFIED NEURONS CONTROLLING THE MOVEMENT OF ACHATINA.
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MEDLINE=90211261; PubMed=2322251;
Fujimoto K., Ohta N., Yoshida M., Kubota
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CARDIO-EXCITATORY PEPTIDE-1 (ACEP-1
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Neogastropoda; Conoidea; Conidae;
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Eukaryota; Metazoa; Mollusca; Gastropoda; Pulmonata;
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CATALYTIC ACTIVITY: QUINOLINE + ACCEPTOR + H(2)O = I
1(2H)-ONE + REDUCED ACCEPTOR.

COPACTOR: FAD, MOLYBDENUM AND IRON-SULFUR.

PATHWAY: FIRST STEP IN THE DEGRADATION OF QUINOLINE
(3-METHYL-)QUINOLINE.

SUBUNIT: HETEROHEXAMER OF TWO ALPHA CHAINS, TWO BETA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRUCTURE BY NMR.
MEDLINE=99324017; PubMed=10395477;
Gehrmann J., Daly N.L., Alewood P.F.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          scaffold in snail and snake toxins recognizing acetylcholine receptors."; FEBS Lett. 444:275-280(1999).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "Alpha-conotoxin ImI exhibits subtype-specific nicotinic acetylcholine receptor blockade: preferential inhibition alpha 7 and alpha 9 receptors.", Mol. Pharmacol. 48:194-199(1995).
                                                                                                                                                                       DISULFID
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                                                                                                                                                                                                          Venom;
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Maslennikov I.V., Shenkarev Z.O., Zhmak M.N.,
Methiessel C., Tsetlin V.I., Arseniev A.S.;
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"A nicotinic acetylcholine receptor ligand
                                                                                                                                                                                                                            Postsynaptic neurotoxin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "Solution structure of alpha-conotoxin resonance.";
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MEDLINE=95379776; PubMed=7651351;
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J. Biol. Chem. 269:167
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MEDLINE=99212205; PubMed=10194298;
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specific for neuronal nicotin;
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nicotinic acetylcholine
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01-OCT-1996 (Rel. 34, Last sequence update)
01-OCT-1996 (Rel. 34, Last sequence update)
20-AUG-2001 (Rel. 40, Last annotation update)
0XYGEN-EVOLVING ENHANCER PROTEIN 2 (OEE2) (24
EVOLVING SYSTEM OF PHOTOSYSTEM II) (FRAGMENT).
-I- FUNCTION: MAY BE INVOLVED IN THE REGULATION OF PHOTOSYSTEM II.
-I- SUBCELLULAR LOCATION: CHLOROPLAST THYLAROID MEMBRANE; ASSOCIATED WITH THE PHOTOSYSTEM II COMPLEX (BY SIMILARITY).
-I- MISCELLANEOUS: ON THE 2D-GEL THE DETERMINED PI OF THIS PROTEIN (SPOT N179) IS: 5.9, ITS MW IS: 22 KDA.
-I- SIMILARITY: BELONGS TO THE PSBP FAMILY.
Photosynthesis: Photosystem II; Chloroplast; Thylakold; Membrane.
NON_TER 13
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Planta 201:261-272(1997).
-1- FUNCTION: MAY BE INVOLVED IN THE REGULATION
-1- SUBCELLULAR LOCATION: CHLOROPLAST THYLAKOID
                                                                                                                                                                                                                                                                                                                                                  Costa P., Pionncau C., Bauw G., Dubos C., Bahrn Frigerio J.-M., Plomion C.; "Separation and characterization of needle and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Plnus pinaster (Maritime pine).
Eukaryota; Viridipiantae; Streptophyta; Eml
Spermatophyta; Coniferopsida; Coniferales;
NCBI_TaxID-71647;
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Eukaryota; Viridiplantae; Streptophyta; Embryop
Bryopsida; Funaridae; Funariales; Funariaceae;
NCBI_TaxID=3218;
                                                                                                                                                                                                                                                                         proteins.";
Electrophoresis 20:1098-1108(1999).
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-I- SIMILARITY: BELONGS TO THE PSBP FAMILY.
Photosynthesis: Photosystem II; Chloroplast:
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Q05311;
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J. Biol. Chem. 268:14071-1408(1993).

-i. FUNCTION: HAS BOTH ATPASE AND HELICASE ACTIVITIES. UNWINDS DNA
-i. FUNCTION: HAS BOTH ATPASE AND HELICASE ACTIVITIES. UNWINDS STRAND
DUPLEXES WITH 3' TO 5' POLARITY WITH RESPECT TO THE BOUND STRANDED
AND INITIATES UNWINDING MOST EFFECTIVELY WHEN A SINGLE-STRANDED
REGION IS PRESENT. INVOLVED IN THE POSTINCISION EVENTS OF
NUCLEOTIDE EXCISION REPAIR AND METHYL-DIRECTED MISMATCH REPAIR.
-i. SIMILARITY: BELONGS TO THE UVRD SUBFAMILY OF HELICASES.
                                                                                                                                                                                                                                                                                                                           This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                         EMBL; L11043; AAA02965.1; -.
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Smith R.L., Banks J.L., Snavely M.D., Maguire M.E.;
"Sequence and topology of the Cora magnesium transp
salmonella typhimurium and Escherichia coli. Identi
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NON_TER
SEQUENCE
                                                                                                                                                                                                                                                              gonadotropin isolated from brains of Lymantria testis ecdy; gonadotropin isolated from brains of Lymantria dispar Arch. Insect Biochem. Physiol. 36:37-50(1997).

-I- FUNCTION: STIMULATES SYNTHESIS OF ECDYSTEROID IN T. OF LARVAE AND PUPAE.
SEQUENCE 14 AA; 1553 MW: 17777777
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Noctuoidea; Lymantriidae; Lymantria. Repidoptera; Glossata; Ditrysia; NCBI_TaxID=13123;
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MEDLINE-97387807;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Lymantria dispar (Gypsy moth).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Endopterygota; Lepidoptera; Glossata; Di
Noctuoidea; Lymantriidae; Lymantria.
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-!- SIMILARITY: BELONGS TO PEPTIDASE
PAPAIN FAMILY OF THIOL PROTEASES
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Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Asteridae; euasterids I; Gentianales; Apocynaceae; Asclepiadoideae;
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Hydrolase;
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PS00640; THIOL_PROTEASE_ASN; PR
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R.M., Woods C.W.,
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21-JUL-1986
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21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
20-AUG-2001 (Rel. 40, Last annotation updat
TRP OPERON LEADER PEPTIDE.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "Evolutionary divergence of the Citrobacter freundii tryptophan "Evolutionary divergence of the Citrobacter freundii tryptophan operon regulatory region: comparison with other enteric bacteria."; J. Bacteriol. 152:57-62(1982).
-!- FUNCTION: THIS PROTEIN IS INVOLVED IN CONTROL OF THE BIOSYNTHES
                                SEQUENCE FROM N.A. MEDLINE=76240562; Squires C., Lee F.
                                                                                                                 SEQUENCE FROM N.A.
MEDLINE=82150258; PubMed=7038627;
Yanofsky C., Platt T., Crawford I.P.,
Horowitz H., van Cleemput M., Wu A.M.
                                                                                                                                                                                                           Escherichia coli, and Escherichia coli 0157:H7.
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PIR; A03592; LFEBWC
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EMBL; A04494; CAA00361.1; -.
EMBL; AE000224; AAC74347.1; -.
EMBL; AE005380; AAC56550.1; -.
EMBL; AP002556; BAB35260.1; -.
EMBL; AP002556; BAB35260.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRAIN:0157:H7 / RIMD 0509952;

MEDLINE:21156231; PubMed=11258796;

Hayashi T., Makino K., Ohnishi M., Kurokawa K., Ishii K., Yokoyama K.,

Han C.-G., Ohtsubo E., Nakayama K., Murata T., Tanaka M., Tobe T.,

Iida T., Takami H., Honda T., Sasakawa C., Ogasawara N., Yasunaga T.,

Kuhara S., Shiba T., Hattori M., Shinagawa H.;

"Complete genome sequence of enterohemorrhagic Escherichia coli

0157:H7 and genomic comparison with a laboratory strain K-12.";

DNA Res. 8:11-22(2001).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Perna N.T., Plunkett G. III, Burland V., Mau B., Glasner J.D., Rose D.J., Mayhew G.F., Evans P.S., Gregor J., Kirkpatrick H.A., Posfal G., Hackett J., Klink S., Boutin A., Shao Y., Miller L., Grotbeck E.J., Davis N.W., Lim A., Dimalanta E.T., Potamousis K., Apodacu J., Anantharaman T.S., Lin J., Yen G., Schwartz D.C., Welch R.A., Blattner F.R.;
                                                                                                                                                                                                                                                                                                                   use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entitles requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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Blattner F.R., Plunkett G. III, Bloch C.A., Perna N.T., Burland V Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew G.F., Gregor J., Davis N.W., Kirkpatrick H.A., Goeden M.A., Rose D.J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Oxender D.L., Zurawski G., Yanofsky C.;
"Attenuation in the Escherichia coll tryptophan operon: role of RNA secondary structure involving the tryptophan codon region.";
Proc. Natl. Acad. Sci. U.S.A. 76:5524-5528(1979).
                                                                                                                                                 Tryptophan blosynthesis; SEQUENCE 14 AA; 1723 N
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; PubMed=11206551;
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P03054;
21-JUL-1986
MEDLINE-91248479; PubMed-1368658;
Kim S.W., Lee S.O., Lee T.H.;
"Purification and characterization of superoxide dismutase from Aerobacter aerogenes.";
Agric. Biol. Chem. 55:101-108(1991).
-i- FUNCTION: DESTROYS RADICALS WHICH ARE NORMALLY PRODUCED WITHIN THE CELLS AND ARE TOXIC TO BIOLOGICAL SYSTEMS.
-i- CAPALYTIC ACTIVITY: 2 PEROXIDE RADICAL + 2 H(+) = O(2) + H(2)O(2).
-i- SUBUNIT: HOMODIMER.
-i- SIMILARITY: BELONGS TO THE IRON/MANGANESE SUPEROXIDE DISMUTASE FAMILY.
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StyGene; SG10400; trpL.
Tryptophan biosynthesis;
SEOUENCE 14 AA; 1635 P
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typhimurium.";
J. Mol. Biol. 121:193-217(1978)
-i- FUNCTION: THIS PROTEIN IS I
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bacteria; Proteobacteria; Enterobacter.
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Bacteria; Proteobacteria;
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[MN] (EC 1.15.1.1) (FR
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                                                                                         _MAIZE UC14_MAIZE STANDARD; PRT; 15 AA P80620; O1-OCT-1996 (Rel. 34, Created) O1-CT-1999 (Rel. 34, Last sequence update) 15-JUL-1999 (Rel. 38, Last annotation update) UNKNOWN PROTEIN FROM 2D-PAGE OF ETICLATED CO
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NON_TER
SEQUENCE
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"The maize two dimensional gel protein database: towards an integrate genome analysis program.";

Theor. Appl. Genet. 93:997-1005(1996).

Theor. Appl. Genet. 93:997-1005(1996).

THE ZIMILANEOUS: ON THE 2D-GEL THE DETERMINED PI OF THIS UNKNOWN PROTEIN IS: 6.4, ITS MW IS: 38.8 KDA.

-i- SIMILARITY: BELONGS TO THE ZINC-CONTAINING ALCOHOL DEHYDROGENASE
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Pfam; PF000081; Sodfe; 1.
PROSITE; PS000088; SOD_MN; PARTIAL.
Oxidoreductase; Manganese.
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Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACC clade;
                                             Zea mays (Maize).
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                                                                        (FRAGMENT)
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ETIOLATED COLEOPTILE (SPOT 258)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Touzet P., Riccardi F., Morin C., Damer pernollet J.-C., Zivy M., de Vienne D.; "The maize two dimensional gel protein genome analysis program."; Theor. Appl. Genet. 93:997-1005(1996).
                                                                                       Hypothetical protein.
NON_TER 15 1
SEQUENCE 15 AA; 19
                                                                                                                                                                                       This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial
                                                                                                                                                                                                                                                                   "Anaerobic growth of Rhodopseudomonas palustris on 4-hydroxybenzoate is dependent on Aadk, a member of the cyclic AMP receptor protein family of transcriptional regulators.";

J. Bacteriol. 174:5803-5813(1992).
                                                                                                                                                                                                                                                                                                                                                                                                            Bacteria; Proteobacteria; alpha subdivision; Bradyrhizobium group; Rhodopseudomonas.
                                                                                                                                                                                                                                                                                                                                                                                                                                    Rhodopseudomonas palustris.
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                                                                                                                                         EMBL; M92426; AAA26091.1;
                                                                                                                                                                  entities requires a license agreement (S or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                Dispensa M., Thomas
                                                                                                                                                                                                                                                                                                                                 MEDLINE=92394882; PubMed=1522059; Dispensa M., Thomas C.T., Kim M.K.,
                                                                                                                                                                                                                                                                                                                                                             STRAIN-CGA009
                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
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MISCELLANEOUS: ON THE 2D-GEL THE
PROTEIN IS: 5.9, ITS MW IS: 34.6
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SEQUENCE
                                                                                                                                                                                       Roise D., Soda K., Yagi T., Walsh C.T.;

"Inactivation of the Pseudomonas striata broad specificity amino acid racemase by D and L isomers of beta-substituted alanines: kinetics, stoichlometry, active site peptide, and mechanistic studies.";

stoichlometry, 23:5195-5201(1984).

1- COFACTOR: PYRIDOXAL PHOSPHATE.

1- SIMILARITY: BELONGS TO THE ALANINE RACEMASE FAMILY.

PIR: A29520. A29520.
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P17916;
01-AUG-1990 (Rel. 15, Created)
01-AUG-1990 (Rel. 15, Last sequence update)
15-DEC-1998 (Rel. 37, Last annotation update)
BROAD-SPECIFICITY AMINO ACID RACEMASE (EC 5.1.1.-) (FRAGMENT).
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the Europeon Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way
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MEDLINE=85072810; PubMed=6439237;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pseudomonas putida.
Bacteria; Proteobacteria;
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PROSITE; PS00395; ALANINE_RACEMASE;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                Pseudomonas
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Bacteria; Proteobacteria; gamma subdivision; Pseudomonadaceae;
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(Rel. 36,
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36, Last annotation updat
ANTIPORTER (FRAGMENT).
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100.0%; Pr
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EMBL; 007185; AAA16963.1; -
Transport; Amino-acid transport; Transmembrane; Inner membrane.
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Search completed: January 14, 2002, 08:08:23 Job time: 708 sec

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Q62721
Q9TVF1
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14.274 Million cell updates/sec
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P82324 pisum sativ
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ALIGNMENTS

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MEDILINE-98077503; PubMed=9414319;

Armes N., Gilley J., Fried M.;

"The comparative genomic structure and sequence of the surfeit gene homologs in the puffer fish Fugu rubripes and their association with CpG-rich islands.";

Genome Res. 7:1138-1152(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     057591; PRELIMINARY; PRT; 34 AA. 057591; UTEMBLE 06, Created) 01-JUN-1998 (TrEMBLE 06, Last sequence update) 01-JUN-2001 (TEMBLE 1. 17, Last annotation update) ARGININOSUCCINATE SYNTHETASE (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Fugu rubripes (Japanese pufferfish) (Takifugu rubripes).
Eukaryota; Metazoa; Chordata; Craniata; Verberata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; ""\t'\"\ndontiformes;
Tetracdontilae; Takifugu.
                                                                          InterPro; IPR001518; Arginosuc_synth.
Pfam; PF00764; Arginosuc_synth; 1.
ProDom; PD003544; Arginosuc_synth; 1.
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34 AA;
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RESULT

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O9EW42;
O1-MAR-2001 (TrEMBLrel. 16, Created)
O1-MAR-2001 (TrEMBLrel. 16, Last sequence update)
O1-MAR-2001 (TrEMBLrel. 16, Last annotation update)
O1-MAR-2001 (TREMBLREL. 16, Last annotation update)
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024837;

01-NOV-1996 (TrEMBLrel. 01,

01-NOV-1998 (TrEMBLrel. 08,
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MEDLINE=94099892; PubMed=8274224;
Bruchhaus I., Leippe M., Lioutas
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Entamoeba histolytica.
Eukaryota; Entamoebida
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Streptococcus pneumoniae.
Bacteria; Firmicutes; Bacillus/Clostridium
                                                                                                                                                                                                                  "Unusual gene organization in histolytica.";
                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
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Local Similarity 100.0%;
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163 AA;
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Pred. No.
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01-MAY-2000
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Query Match
Best Local Similarity
SEQUENCE FROM N.A.

Pyck N., Roels P., Smets E.;

Pyribal relationships in Caprifoliaceae:

"Tribal relationships in Caprifoliaceae:
analysis using ndhr sequences.";

Syst. Geogr. Plants 69:145-159(1999).
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01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
                                                                                                                                                                                                                        Asteridae; euasterids
NCBI_TaxID=105266;
                                                                                                                                                                                                                                                              Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Asteridae; euasterids II; Dipsacales; Linnaeaceae; Dipelta.
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SEQUENCE 663 AA; 74858 MW; BB(
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                                                                                                                                                                                                                                                                                                                                                                                                                  Dipelta ventricosa.
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InterPro; IPR002128; Oxidored_q1_C.
InterPro; IPR001516; Oxidored_q1_N.
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CATALYTIC ACTIVITY: NADH + PLASTOQUINONE
SIMILARITY: TO NADH-UBIQUINONE/PLASTOQUIN
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NADH-UBIQUINONE/PLASTOQUINONE (COMPLEX I),
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InterPro: IPR002128; Oxidored_q1_C.
InterPro: IPR001516; Oxidored_q1_N.
Pfam: PF00361; oxidored_q1; 1.
Pfam: PF01010; oxidored_q1_C; 1.
Pfam: PF00662; oxidored_q1_N; 1.
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"A search for the phylogenetic position of the seven-son flower
A search for the phylogenetic position of the seven-son flower
(Heptacodium, Dipsacales): combining molecular and morphological
evidence.";
Plant Syst. Evol. 0:0-0(2000).
Plant Syst. Evol. 0:0-0(2000).
-I- CATALYTIC ACTIVITY: NADH + PLASTOQUINONE = NAD(+) + PLASTOQUINOL.
-I- SIMILARITY: TO NADH-UBIQUINONE/PLASTOQUINONE (COMPLEX I), VARIOUS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Roy D., Coulombe M., Perron K., Roy P.H.;
"Characterization of a novel 6'-N-aminoglycoside acetyltransferase gene aac(6')-IIc from the integron of a Chinese Pseudomonas aerugin chineal isolate.";
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01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAY-2000 (TrEMBLrel. 13, Last annotation updat
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L; AF161295; AAF18383.2; -.
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Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Epermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosid; Spermatophyta; Magnoliophyta; eudicotyledons; rore eudicots; Rosid; Spermatophyta; Fabales; Fabaceae; Papillonoideae; Pisum.
                                                                                                                                                                                                                              EMBL; UI
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Rattus norvegicus (Rat).
Rutaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
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-!- MISCELLANEOUS: ON THE 2D-GEL THE DETERMINED PI OF
PROTEIN IS: 6.7, ITS MW IS: 16.8 KDA.
Chloroplast; Thylakoid membrane.
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Adamska I., van Wijk K.J.;
Proteomics of the chloroplast: systematic identification and targeting analysis of lumenal and peripheral thylakoid protein plant Cell 12:319-341(2000).

-i- SUBCELLULAR LOCATION: CHLOROPLAST THYLAKOID MEMBRANE LUME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE, SUBCELLULAR LOCATION, AND STRAIN-CV. DE GRACE; TISSUE-LEAF; MEDLINE-20181728; PubMed-10715320;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=10116;
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                                                                                                                                                                                                                                                                       prohibitin-encoding genes.";
Gene 158:291-294(1995).
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                                                                                                                                                                                                        SEQUENCE
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                                                                                        Score 2; DB 1; Pred. No. 4.7 0; Mismatches
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Last sequence update)
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Sciurognathi; Muridae; Murinae; Rat
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Q9TVF1;
01-MAY-2000
01-MAY-2000
01-MAY-2000
                                                                                                                                                                                                                                                                                                          "Evolution of a pseudo-control region in th Palearctic Buzzards (genus Buteo).";
J. Zool. Syst. Evol. Res. 37:185-194(1999).
EMBL; AF202197; AAF61879.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Di Noia J.M., D'Orso I., Aslund L., Sanchez "The Trypanosoma cruzi mucin family is trans genes having hypervariable regions."; J. Biol. Chem. 273:10843-10850(1998).
EMBL; AF036447; AAC14246.1; -. NON_TER 1 1
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STRAIN=CL-BRENNER;
MEDLINE=98225151; PubMed=9556557;
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NCBI_TaxID=5693;
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Eukaryota; Eugleno
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OGENASE SUBUNIT 6 (FRAGMENT).
   PRELIMINARY;
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Hara H., Kaji A.;
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EMBL; AF202212; AAF61894.1;
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J. Zool. Syst. Evol. Res. 37:185-194(1999).
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P96319 PRELIMINARY; PRT; 11 AA. P96319; 01-MAY-1997 (TrEMBLrel. 03, Created) 01-MAY-1997 (TrEMBLrel. 03, Last sequence update) 01-NOV-1998 (TrEMBLrel. 08, Last annotation update) 01-NOV-1998 (TREMBLREL. 08, Last annotation update) 02-MAY-1999 (TREMBLREL. 03, Last sequence update) 02-MAY-19
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STRAIN-SCHMIDT RUPPIN SUBGROUP A (NY);
MEDLINE-82271824; PubMcd-6287213;
MEDLINE-82271824 PubMcd-6287213;
Takeya T., Hanafusa H., Junghans R.P., Ju G., Skalka A "Comparison between the viral transforming gene (src) avian sarcoma virus and its cellular homolog.";
MO1. Cell. Biol. 1:1024-1037(1981).
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STRAIR-SCHMIDT-RUPPIN SUBGROUP A (NY);
Hara H., Kaji A.;
Submitted (DEC-1995) to the EMBL/GenBa
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MEDLINE=91184004; PubMed=2081457;
MacDonald P.M.;
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SEQUENCE FROM N.A.
STRAIN=ATCC 27774;
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EMBL; AF022481; AAC35449.1;
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Bacteria; Spirochaetales;
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Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Neoptera; Endopterygota; Diptera; Brachycera; Musc
a; Drosophilidae; Drosophila.
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01-MAY-2000
01-MAY-2000
                                                                                                                                                           Chau-
FBC.
Homo sapiens (Human).
Homo sapiens (Human).
'horia; Primates;
SEQUENCE FROM N.A. VIMAL F., Farssac E., Ga. Submitted (JUL-1999) to EMBL; AF168366; AAD50437
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.
NCBI_TaxID=9986;
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POSITIONAL CUES FOR THE DEVELOPMENT OF HEAD AND THORACIC SEGMENTS.
BCD REGULATES THE EXPRESSION OF INFORMATION OF INFORMATI
                                                                                                                                                                                                                                                                                                                 COAGULATION
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01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAY-2000 (TrEMBLrel. 13, Last annotation update)
CALCYCLIN-ASSOCIATED PROTEIN, CAP50-CA2+/PHOSPHOLIPID-BINDING
                                                                                                                                                     NCBI_TaxID=9606;
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"A calcyclin associated protein is a newly identified
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(TrEMBLrel. 13, Last sequence update)
(TremBLrel. 13, Last annotation updat
                                                                                                                                                                                                                                                                                                                 FACTOR VIII
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01-NOV-1998 (TrEMBLrel. 08, Last sequence update)
01-NOV-1998 (TrEMBLrel. 08, Last annotation update)
01-NOV-1998 (TrEMBLrel. 08, Last annotation update)
MHC CLASS II B LOCUS 4 (FRAGMENT).
Pseudotropheus sp. 'Pseudotropheus tropheops complex'.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Labroidei
Cichildae; Pseudotropheus.
NCBI_TaxID=51796.
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077919;
01-NOV-1998
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                   Terauchi K., Ikeuchi M., Ohmori M.;

"A putative Fd-GOGAT gene involved in protection against phtoinhibition in Synechocystis PCC 6803.";

Submitted (NOV-1995) to the EMBL/GenBank/DDBJ databases. EMBL; D78371; BaA11378.1; -...
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NCBI_TaxID=1148;
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Genetics 149:1527-1547(1998).
EMBL; AF050032; AAC41371.1; -.
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    SEQUENCE
                                                                                                                                                  STRAIN=PCC6803;
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ID DEHYDROGENASE HOMOLOGUE (FRAGMENT).
is sp. (strain PCC 6803).
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Q9UJ52;
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LATROPHILIN-2 (FRAGMENT).
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ALKALINE EXTRACELLULAR PROTEASE (EC 3.4.21.-) (AEP)
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Q10721;
                                                                           SEQUENCE FROM N.A.
MEDLINE-99153747; PubMcd-10030676;
White G.R.M., Varley J.M., Heighway J.;
                                                                                                                Homo sapiens (Human).
Eukaryota; Metazoa; Chordata;
Mammalla; Eutheria; Primates;
NCBI_TaxID~9606;
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NON_TER 13 13
SEQUENCE 13 AA; 1292 MW;
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"A 33 kDa serine proteinase from
Biochem. J. 315:119-126(1996).
-i- SUBUNIT: MONOMER.
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Larcher G., Cimon
Bouchara J.-P.;
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          White G.
                 SEQUENCE FROM N.A.
                                                cancer.";
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Q9UEE3;
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NON_TER
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                               PEPTIDE T=BRADYKININ POTENTIATOR.
Tityus serrulatus (Brazilian scorpion).
Eukaryota; Metazoa; Arthropoda; Chelicerata; Arachnida;
Buthoidea; Buthidae; Tityus.
NCBI_TaxID=6887;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EMBL; AJ244500; CAB60202.1;
NON_TER 1 1 1
NON_TER 13 13
SEQUENCE 13 AA; 1637 MW;
                                                                                                                            MEDLINE=94024945; PubMed=8212046; Ferreira L.A., Alves E.W., Henriques O.B.; "Peptide T, a novel bradykinin potentiator serrulatus scorpion venom."; Toxicon 31:941-947(1993). SEQUENCE 13 AA; 1604 MW; 35770B0644FC03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       O9TWR4;
01-mAY-2000 (TrEMBLrel. 13, Created)
01-mAY-2000 (TrEMBLrel. 13, Last sequence up
01-mAY-2000 (TrEMBLrel. 13, Last annotation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Obata K., Hiraga H., Nojima T., Yoshida M.C., "Molecular analysis on the breakpoint region c translocation in Ewing's sarcoma.";
Submitted (MAR-1998) to the EMBL/GenBank/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens (Human)
Eukaryota; Metazoa;
Mammalia; Eutheria;
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Minimum DB seq length: 0
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Copyright (c) 1993 - 2000 Comp
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7.281 Million cell updates/sec
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query Match Length DB	ength	BG	ID	Description
_	ω	37.5	9	21	AAY51341	Sphingolipid desat
N	ω	37.5	13	22	AAB37631	Cholecystokinin pe
w	ω	37.5	86	18	AAW20310	H. pylori cytoplas
4	ω	37.5	91	21	AAG22631	Zea mays protein f
ហ	ω	37.5	110	18	AAW27779	Amino acid sequenc
σ	ω	37.5	121	21	AAG22630	Zea mays protein f
7	ω	37.5	185	18	AAW20262	H. pylori secreted
æ	ω	37.5	185	18	AAW24622	H. pylori secreted
9	w	37.5	275	12	AAR10204	Mutant subtilisin
10	ω	37.5	277	22	AAG75013	Human colon cancer
11	w	37.5	284	21	AAB56744	Human prostate can

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AAR90601 AAW41282 AAW41282 AAB92005 AAB910370 AAP10373 AAP10375 AAP10375 AAP10386 AAP10401 AAP10629 AAP10620 AAP10625 AAP10625 AAP10625 AAP10625 AAP10626 AAP10627 AAP10627 AAP10628 AAP10629 AAP107020 AAR0707020	AAR12129 AAW84298 AAW84183 AAW40758 AAY38787 AAP80575 AAW17569 AAW17577 AAW17570 AAW17570 AAW17570 AAW17578 AAW17578 AAW17578 AAW17578
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ALIGNMENTS

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AAY51341 standard; Protein;

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Sphingolipid desaturase; sld1; sphingobase; ceramide; capnold; transgenic plant; crop plant; delta-8-unsaturated long-chain base; tolerance; resistance; soil salinity; ion stress; toxicity; drought; cold; frost; phytopathogenic microorganism; flowering time; cosmetic; pharmaceutical; food; chemical raw material.
                                                                                                                                                                                                                            Sphingolipid desaturase protein fragment #7.
                                                                                                                                                                                                                                                   27-APR-2000 (first entry)
                                                                                                                                                                                                                                                                          AAY51341;
                       27-JUN-1998;
                                                                                                    Misc-difference
                                                                                                                                    Unidentified.
  27-JUN-1998;
                                             30-DEC-1999
                                                                   DE19828850-A1.
  98DE-1028850
                       98DE-1028850.
                                                                                                      Location/Qualifiers
                                                                                        /label= Any_amino_acid
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              alter size growth and flowering time. Cells, transgenic organisms or plants containing the DNA sequence can be used to produce sphingolipids and capnoids with unsaturated sphingobases. The sphingolipids or capnoids can be used in cosmetics, pharmaceuticals and foods and as chemical raw materials. AAY51335-Y51344 represent sphingolipid desaturase protein fragments described in the method of the invention.
              03-MAY-2000; 2000WO-SE00870
                                                                                                                                                                                                                                     peripheral nervous system; diabetes mellitus; cancer treatment; cytostatica; hearing impairment; visual handicap; alcohol-induced neuropathy; dystrophy.
                                                                                                                                                                                                                                                                                 Antidiabetic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               to compensate for a delta-8-unsaturated long-chain base deficiency, to exclude production of delta-8-unsaturated bases, to increase tolerance or resistance to soil salinity, ion stress or toxicity, drought, wet conditions, cold or frost and/or phytopathogenic microorganisms, or to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    used to produce transgenic plants, especially crop plants, with an increased or decreased delta-8-unsaturated long-chain base content or all altered delta-8-unsaturated long-chain base cis/trans ratio, especially
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This invention describes a novel sphingolipid desaturase that selectively introduces a double bond into the sphingobase of the residue of sphingolipids and cappoids. A DNA sequence encoding th sphingolipid desaturase, or a vector containing the DNA sequence,
                                           09-NOV-2000
                                                                      WO200066150-A1
                                                                                                                Modified-site
                                                                                                                                         Modified-site
                                                                                                                                                                                                             Synthetic
                                                                                                                                                                                                                                                                                                          Cholecystokinin peptide fragment analogue #10.
                                                                                                                                                                                                                                                                                                                                       23-MAR-2001
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                                                                                                                                                                                                                                                                                                                                                                                         AAB37631 standard;
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                                                                                                                                                                     Modified-site
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1 ayxg
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                                                                                                                                                                                                                                                                                 cytostatic; auditory;
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13
                                                                                                                                                                                  Location/Qualifiers
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                                                                                                                                                      /label= Nle
                                                                                                                                                                                                                                                                                                                                                                                           peptide;
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100.0%; Pr
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                                                                                                "C-terminal amide"
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                               cholecystokinin-8; CCK-8; neuropathy;
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Best Local Similarity
Thes 4; Conserve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cytoplasmic; vaccine; prevention; treatment; infection; identification; binding compound; bacterium; life cycle; activator; bacteria; inhibitor duodenal ulcer disease; chronic gastritis; diagnosis; envelope.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to peptides showing cholecystokinin (CCK)-8 activity, which can be used to treat neuropathies in the peripheral nervous system (PNS). The present sequence is one such peptide. The peptides of the present invention may be used to treat neuropathies in the PNS associated with diabetes mellitus, cancer treatment such as cytostatica, hearing impairment and/or visual handicap, alcohol-induced
                                      06-JUN-1996;
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                                                                                     19-DEC-1996.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Manufacturing a medicament for treating neuropathies in the peripheral nervous system comprises use of a substance showing cholecystokinin-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             neuropathy, damage induced by surgery and dystrophy.
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28
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5. 1.2e+02;
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01-APR-1996;

96US-0630405 96WO-US09122

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RESULT
AAG22631
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Best Local S
Matches 5
25-FEB-1999

05-MAR-1999

09-MAR-1999

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29-MAR-1999

01-APR-1999

06-APR-1999

08-APR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present sequence shows a Helicobacter pylori cytoplasmic protein that may be used in a vacchne to prevent or treat H. pylori infection or to identify H. pylori polypeptide binding compounds, useful as potential H. pylori life cycle activators or inhibitors. The genomic sequence of H. pylori life cycle activators or inhibitors. The sequences of H. pylori (ATCC 55679) was determined from overlapping contigs generated by mechanically shearing the bacterial DNA. The sequences were analysed for ORF of at least 180 nucleotides, and the predicted coding regions defined by computer evaluation. To identify likely H. pylori antigens for vaccine development, the amino acid sequences predicted from various ORF were analysed for significant homology to other known or exported membrane proteins. Having identified and determined the sequences of interest, particular regions can be isolated from H. pylori by PCR amplification for recombinant polypeptide production, e.g. in E. coli hosts.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Helicobacter pylori nucleic acid sequences and related polypeptide(s) - useful for vaccines to treat or prevent H. pylori infection, and to detect Helicobacter
                                                                                                                                                                                                                    06-SEP-2000
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                                                                                                                                                                                                                                                                                                                                         Protein identification; signal transduction pathway; metabolic pathway; hybridisation assay; genetic mapping; gene expression control; promoter;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAG22631 standard; Protein;
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                                                                                                                                                                                                                                                                                                                          termination sequence;
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26 rxxay 30
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les 5; Conserv
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DB; AAT67516.
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                                                                                                                                                                                                                                                                                                                                                                                               protein fragment SEQ ID
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                                                                                                                                                                                2000EP-0301439
99US-0121825.

99US-0123180.

99US-0123548.

99US-0125788.

99US-0126264.

99US-0126785.

99US-0127462.

99US-0128714.
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99US-0129845
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Pratt JM,
WPI; 1997-424969/39
N-PSDB; AAT83748.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Staphylococcus aureus protein; ribozyme; antisense sequence; control; Staphylococcal gene; regulatory element; bacterial gene expression; vaccine; Staphylococcal infection; food poisoning; scaled skin syndrome;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                Staphylococcus aureus.
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                                                                                                                           (SMIK ) SMITHKLINE BEECHAM CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       toxic shock syndrome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5 ayxg
||||
27 ayxg
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             h 37.5%; Score 3; DB 21; Lo Similarity 100.0%; Pred. No. 4.4e+02; 4; Conservative 0; Mismatches 0;
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                                                              Burnham MK,
Reichard RW,
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990S-0159331

990S-0159637

990S-0160741

990S-0160768

990S-0160770

990S-0160770

990S-0160815

990S-01608815

990S-01608815

990S-0161404

990S-0161404

990S-0161406

990S-0161361

990S-0161361

990S-0161361

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990S-0161361

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990S-0161361

990S-0161361
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18
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                                                              Hodgson JE, I
Rosenberg M,
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                                                              Knowles DJC,
, Ward JM;
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bacterial
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                                                                                      Nicholas RO;
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10-AUG-1999; 11-AUG-1999; 12-AUG-1999; 13-AUG-1999; 13-AUG-1999; 16-AUG-1999; 17-AUG-1999;

990S-0145218
990S-0145218
990S-0145218
990S-0145918
990S-0145918
990S-0145918
990S-0146388
990S-0147203
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990S-0147303
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990S-0151086
990S-0158089
990S-0158089
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990S-0158089

18-AUG-1999
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25-AUG-1999
27-AUG-1999
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31-AUG-1999
31-SEP-1999
31-SEP

19-JUL-1999
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20-AUG-1999
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990S-0144814 990S-0145086 990S-0145085 990S-0145085 990S-0145087 990S-0145089 990S-0145192 990S-0145145

99US-0144334. 99US-0144335. 99US-0144352. 99US-0144632. 99US-0144884.

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RESULT
AAG22630
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Best Local Similarity
25-FEB-1999

05-MAR-1999

09-MAR-1999

23-MAR-1999

25-MAR-1999

25-MAR-1999

01-APR-1999

01-APR-1999

16-APR-1999

16-APR-1999

19-APR-1999

23-APR-1999

23-APR-1999

23-APR-1999

30-APR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present sequence represents a Staphylococcus aureus protein, that, based on homology with an Fischerichia coli protein, is believed to be pseudouridylate synthase I (pseudouridine synthase I, uracil hydrolyase. The DNA sequence was isolated from a library of clones of S. aureus WCUH 29 in Escherichia coli. The DNA sequence can be used in the construction of ribozymes and antisense sequences to control the expression of Staphylococcal genes. The DNA sequence is also useful as a source of regulatory elements for the control of bacterial gene expression. The present protein may be used to produce vaccines to chable a host to produce specific antibodies with antibacterial action. These vaccines and antibodies would protect a host against invasion by S. aureus, and conditions relating to Staphylococcal infection, shock syndrome, and toxic shock syndrome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Novel polypeptide(s) from Staphylococcus aureus strain WCUH29 to isolate antimicrobial compounds, and in vaccines against S. aureus infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim
                                                                                                                                                                                                                                                                                                                                                     Protein identification; signal transduction pathway; metabolic pathway; hybridisation assay; genetic mapping; gene expression control; promoter;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAG22630 standard; Protein; 121 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   shock syndrome.
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                                                                                                                                                                                                                                                                                                                  Zea mays subsp.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAG22630;
                                                                                                                                                                                                                                                                                                                                          termination sequence;
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8 ayxg 11
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                                                                                                                                                                                                                                                                                                                                                                                             protein
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99US-0121825.
99US-012548.
99US-0125788.
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99US-0128234.
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99US-01300077.
99US-0130510.
99US-0130510.
99US-0130510.
99US-0130510.
99US-013049.
99US-013049.
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o. 5e+02;
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  114 - WAY - 1999
119 - WAY - 1999
120 - WAY - 1999
221 - WAY - 1999
221 - WAY - 1999
232 - WAY - 1999
242 - WAY - 1999
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05-MAY-1999;
06-MAY-1999;
06-MAY-1999;
07-MAY-1999;
11-MAY-1999;
14-MAY-1999;
14-MAY-1999;
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99US-0144085
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99US-0144085
99US-0144333
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RESULT
AAW20262
Вb
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Best Local
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21-OCT-1999
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28-OCT-1999
28-OCT-1999
29-OCT-1999
                                                                                                                                                                                                                                            Cytoplasmic; vaccine; prevention; treatment; infection; identification; binding compound; bacterium; life cycle; activator; bacteria; inhibitor duodenal ulcer disease; chronic gastritis; diagnosis; envelope.
             01-APR-1996;
07-JUN-1995;
(ASTR ) ASTRA AB.
                                   06-JUN-1996;
                                                  19-DEC-1996
                                                                 WO9640893-A1
                                                                                             Misc-difference
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99US-0160770
99US-01608115
99US-0160815
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                                  96WO-US09122
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158
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157
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149
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142
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                                                                                       /label= unknown
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                    Length 121;
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                                                                                                                                                                                                                                                     inhibitor;
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22-JUL-1999
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99US-0159239
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99US-0159638
99US-0159638

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В
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The protein may be used in a vaccine to prevent or treat H. pylori infection or to identify H. pylori polypeptide binding compounds, useful as potential H. pylori life cycle activators or inhibitors. The genomic sequence of H. pylori (ATCC 55679) was determined from overlapping contigs generated by mechanically shearing the bacterial DNA. The sequences were analysed for ORF of at least 180 nucleotides, and the predicted coding regions defined by computer evaluation. To identify likely H. pylori antigens for vaccine development, the amino acid sequences predicted from various ORF were analysed for significant homology to other known or exported membrane proteins. Having identified and determined the sequences of interest, particular regions can be isolated from H. pylori by PCR amplification for recombinant polypeptide production, e.g. in E. coli hosts.
                                                                                                                                                                                                                                                                                                   Transmembrane; cytoplasmic; cell envelope; flagella; transport; secreted; periplasmic; chronic gastritis; duodenal ulcer disease; activator; inhibitor; bacterial life cycle; vaccine; immunise;
                                                                                                                                                                                                                                                                                                                                                              H. pylori secreted or periplasmic protein 23594833.aa
                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAW24622 stundard; Protein; 185 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1997-052306/05.
N-PSDB; AAT67760.
29-MAY-1997
                        W09719098-A1
                                                                  Misc-difference
                                                                                               Misc-difference
                                                                                                                            Misc-difference
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                                                                                                                                                                                                                                                          Helicobacter pylori.
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                                                                                                                                                       Misc-difference
                                                                                                                                                                                                                                                                                      detection; antisense; inhibition.
                                                                                                                                                                                                                                                                                                                                                                                          11-AUG-1997 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This sequence is a H. pylori secreted or periplasmic protein.
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||140 ayxg 143
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                                                                                                                                                       /note-
142
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                                                                                               /note=
157
                                                                                                                          /note⇔ "encoded by RAA"
149
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                                                                                 note
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100.0%; Pred. No.
tive 0; Mismatc
                                                     "encoded by WAA"
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                                                                              "encoded by GAK"
                                                                                                              "encoded
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                                                                                                             by CSG"
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5. 7.1e+02;
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CC Helicobacter pylori has been strongly linked to chronic gastritis and duodenal ulcer disease. The nucleic acid sequences of the invention care used to evaluate compounds, especially activators or inhibitors of bacterial life cycle, for the ability to bind an H. pylori nucleic acid sequences, and corresponding proteins, are calso useful for generating vaccines for immunising subjects against H. pylori or for use in detecting the presence of Helicobacter species in calso useful for generating vaccines for immunising subjects against H. pylori or for use in detecting the presence of Helicobacter species in calso useful for generating vaccines for immunising subjects against H. pylori or for use in detecting the presence of these sequences are used to inhibit expression of a gene from Helicobacter species in C2 used to inhibit expression of a gene from Helicobacter species. H. CC pylori whole genomic DNA was isolated and nebulised to a median size of 2000 bp. Purified DNA fragments were blunt-ended and ligated to unique BatxI-linker adapters in 100-1000 fold molar excess. These linkers are complementary to the BstXI-cut pMPX vectors, while the overhang is not self-complementary. Therefore the linkers will not concatemerise nor will the cut vector re-ligate itself easily. The linker-adapter inserts were ligated to each of the 20 pMPX vectors to construct a series of shotgun subclone libraries. The purified DNA samples were then
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 4
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N-PSDB; AAT77440.
                                                                                                                                                                                                                            Mutant subtilisin polypeptide (I).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 10;
                                                                                                                                        Misc-difference
                                                                                                                                                                                        Mutant; subtilisin; detergent; serine protease
                                                                                                                                                                                                                                                                 27-MAR-1991
                                                                                                                                                                                                                                                                                                    AAR10204;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Helicobacter pylori nucleic acid sequences and related proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (ASTR ) ASTRA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      17-NOV-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15-NOV-1996;
                                                 25-DEC-1990
                                                                                     US4980288-A
                                                                                                                                                                                                                                                                                                                                     AAR10204 standard; Protein; 275
                                                                                                                                                                                                                                                                                                                                                                                                                          140 ayxg 143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sequencea
                                                                                                                                                                                                                                                                                                                                                                                                                                              5 ayxg 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity
                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        for diagnostics and therapeutics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The ORF/protein reference number for this sequence was obtained the related specification, W09640893.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Page 153; 1481pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      95US-0561469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         96WO-US18542
                                                                                                                                      Location/Qualifiers 218..218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              37.5%; Score 3;
100.0%; Pred. No.
tive 0; Mismatc
                                                                                                                                                                                                                                                                                                                                     ₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 18; I
5. 7.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 185;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
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14-DEC-1987;

87US-0143949

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10
75013
  Claim 11; Page 7294-7295; 9803pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       in the specification (Ser/Asp-Asn218).

In the specification (Ser/Asp-Asn218).

The mutant subtilisin does not lose activity as rapidly when stored in soln. With detergents or when subjected to high heat during use in cleaning. It is used for the removal of proteinaceous stains on fabric. Other stabilising mutants may be introduced into the protein. The stabilising mutations may also be applied to other
                                             Nucleic acids encoding useful for preventing,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NB: to construct sequences AAR10204-13, the B. subtilis wild-type sequence was retrieved from the GENESEQ database (AAP90095; J01137972-A) sequence acid residues altered according to the mutations described in the sequence of the sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 1; Page 16; 18pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mutant subtilisin poly-peptide(s) with increased thermal stability - obtd. by muta-genesis of subtilisin gene used in liq.
                                                                                                                             N-PSDB;
                                                                                                                                                                                                  Ruben SM,
                                                                                                                                                                                                                                                                                                   29-SEP-1999;
03-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                          28-SEP-2000; 2000WO-US26524.
                                                                                                                                                                                                                                                                                                                                                                                                                           05-APR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO200122920-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human colon cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            03-SEP-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAG75013;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAG75013 standard; Protein; 277 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            detergent compsns.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1991-021675/03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14-DEC-1987;
12-FEB-1986;
                                                                                                                                                                                                                                                  (HUMA-) HUMAN GENOME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       homologous serine proteases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (GENE-) GENEX CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              216 ayxg 219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5 ayxg 8
                                                                                                                                                    2001-235357/24.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              colon cancer;
                                                                                                                             AAH34418
                                                                                                                                                                                                  Barash SC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          carcinoma; chromosome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Rollence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         275 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                   99US-0157137.
99US-0163280.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          86US-0828545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 87US-0143949.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              antigen protein SEQ ID NO:5777.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ľ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          colon cancer antigen; diagnosis; detection;
; chromosome 14.
                                                                                                                                                                                                                                                  SCI INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  37.5%;
                                                4277 human
diagnosing
                                                                                                                                                                                                    Birse CE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pantoliano
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 3;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                   colon cancer-associated polypeptides,
and/or treating colorectal cancers -
                                                and/or treating
                                                                                                                                                                                                    Rosen CA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 12; L
. 9.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 275
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local S
Matches 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        the proteins are collectively known as colon cancer antigens. The colon cancer antigens have cytostatic activity and can be used in gene therapy and vaccine production. N and P may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate P expression. For example, N and P may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome that affect the activity of P by expressing inactive proteins or to supplement the patients own production of P. Additionally, N may be used to produce the colon cancer-associated Ps, by inserting the nucleic acids into a host cell and culturing the cell to express the proteins. N and P can be used in the prevention, diagnosis and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204 and AAB77789 represent sequences used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            present invention.

N.B. Pages 666 to 682 and page 7053 of the sequence listing were missing at time of publication, meaning no sequences are present SEQ ID NO:1027 to 1052, 7921 and 7922.
                                                                                                                                                                         (HUMA-)
                                                                                                                                                                                                                                                                                                                                                                                                               vulnerary; gastrointestinal;
antibacterial; gene therapy;
                                 Prostate cancer associated gene sequences, referred to cancer antigens, useful for treatment, prevention, and disorders such as prostate cancer -
                                                                                                                                                                                                                                                                                                                                                                                                  gastrointestinal;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human prostate cancer antigen protein sequence SEQ ID NO:1322.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             13-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAB56744;
                                                                                            N-PSDB;
                                                                                                          WPI; 2000-587513/55
                                                                                                                                         Rosen CA,
                                                                                                                                                                                                                       12-MAR-1999;
                                                                                                                                                                                                                                                     08-MAR-2000;
                                                                                                                                                                                                                                                                                      21-SEP-2000.
                                                                                                                                                                                                                                                                                                                  WO200055174-A1.
                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                 wound;
                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; prostate cancer; prostate cancer antigen; detection; diagnosis; neuroprotective; cytostatic; cardioactive; immunomodulatory; muscular;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAB56744 standard; Protein; 284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAH32943 to AAH37195 and AAG73514 to AAG77788 represent human cancer-associated nucleic acid molecules (N) and proteins (P).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     89 аухд
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1111
                                                                                                                                                                                                                                                                                                                                                                                 infectious
                                                                                                                                                                         HUMAN GENOME SCI INC ROSEN C A.
                                                                                            AAF15947.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        92
                                                                                                                                         Ruben SM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                277 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                37.5%; Solitarity 100.0%; If Conservative 0;
                                                                                                                                                                                                                                                       2000WO-US05988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                            as prostate cancer
                                                                                                                                                                                                                       99US-0124270
                                                                                                                                                                                                                                                                                                                                                                                 disease
                                                                                                                                                                                                                                                                                                                                                                                                pulmonary;
                                                                                                                                                                                                                                                                                                                                                                                                               cardioactive; immunomodulatory; muscular;
nephrotropic; antiinfective; gynaecological;
neural; immune; reproductive; renal;
                                                                                                                                                                                                                                                                                                                                                                                                cardiovascular; proliferative disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 3;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    . рв
9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                            as prostate
diagnosis of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      colon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                for
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Claim 11; Page 1743-1744; 2338pp; English

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RESULT 12
AAR12129
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cardioactive, immunomodulatory, muscular, vulnerary, gastrointestinal, nephrotropic, antlinfective, gynaccological and antibacterial activities, and can be used in gene therapy. The prostate cancer antigen polynucleotides may be used for detection of prostate cancer, chromosome identification, as chromosome markers, and for numerous other diagnostic or research purposes. The prostate cancer antigens may be used to treat disorders such as neural, immune, muscular, reproductive, gastrointestinal, pulmonary, cardiovascular, renal, and proliferative disorders, wounds, and infectious diseases. AAF16506 to AAF16514 to AAB57303 represent sequences used in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                                                                                                                   Key
Peptide
                                                        Example 4; Fig 17; 104pp; English
                                                                                                    Oligomeric immunoglobulin(s) with high avidity for antigen(s) - formed by duplicating csp. variable region of light chain of IgG
                                                                                                                                                      N-PSDB;
                                                                                                                                                                    WPI; 1991-163947/22
                                                                                                                                                                                                 Shuford WW, Harris LJ,
                                                                                                                                                                                                                                                                07-NOV-1989;
                                                                                                                                                                                                                                                                                           06-NOV-1990;
                                                                                                                                                                                                                                                                                                                            16-MAY-1991.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORF 1 of IgG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-AUG-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAR12129 standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAF15566 to AAF16505 encode the human prostate cancer associated proteins, called prostate cancer antigens, given in AAB56363 to AAB57302 The prostate cancer antigens can have neuroprotective, cytostatic,
                                                                                                                                                                                                                                                                                                                                                         WO9106305-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                passive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAR12129;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                (BRIM ) BRISTOL-MYERS SQUIB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Immunoglobulin G; light chain; variable region; duplication; bassive immunity; group B streptococci.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 263 ayxg 266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ٠.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          284 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          light chain variable region clone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                              89US-0432700
                                                                                                                                                                                                                                                                                           90WO-US06426
                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
224..336
                                                                                                                                                                                                                                                                                                                                                                                                    /label L'V region
/note "last 3 ami
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             37.5%;
                                                                                                                                                                                                   Raff HV;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      401 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 3;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                      amino acids of leader and variable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 21;
. 9.4e+0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .4e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0;
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This sequence is derived from the nucleotide sequence encoding the light chain variable region. The "x" residues represent nonsense codons. The coding sequence has been translated in all 3 reading

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RESULT 1
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Matches 4
The present sequence represents a consensus sequence of glial cell-line derived neurotrophic factor receptor (GDNFR) protein and GDNFR-related (GRR) proteins GRR2 and GRR3. The proteins have similar functions. GDNFR proteins are functionally characterised by the ability to bind glial cell line-derived neurotrophic factor (GDNF) and/or neurturin specifically, and to act as part of a molecular complex which mediates or enhances the signal transduction affects of GDNF and/or neurturin. The proteins can be used for treating improperly functioning dopaminergic nerve cells, Parkinson's disease, Alzheimer's disease or amyotrophic lateral sclerosis. They can also be used for treating neurological disorders associated with diabetes, glaucoma or other
                                                                                                                                                                                        Claim 51; Fig 26; 318pp; English.
                                                                                                                                                                                                                                      New isolated glial cell line-derived neurotrophic factor receptors used to develop products for treating e.g. improperly functioning dopaminergic nerve cells, Parkinson's disease, Alzheimer's disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GDNFR; glial cell line-derived neurotrophic factor; GDNF; neurturin; signal transduction; dopaminergic nerve cell; Parkinson's disease; Alzheimer's disease; amyotrophic lateral neurological disorder; diabetes; glaucoma; sensory neuropathy; retinal ganglion cell degeneration; sensory neuropathy;
                                                                                                                                                                                                                           or amyotrophic lateral sclerosis
                                                                                                                                                                                                                                                                                                      WPI; 1999-080806/07.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Glial cell-line derived neurotrophic factor receptor,
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                                                                                                                                                                                                                                                                                                                                                                                                  30-MAY-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Consensus sequence of GDNFR and GRR2 and GRR3 proteins
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         The present sequence represents a consensus sequence of rat and human glial cell-line derived neurotrophic factor receptor (GDNFR) protein and GDNFR-related (GRR) proteins. The proteins have similar functions. GDNFR proteins are functionally characterised by the ability to bind glial cell line-derived neurotrophic factor (GDNF) and/or neurturin specifically, and to act as part of a molecular complex which mediates or enhances the signal transduction affects of GDNF and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              diseases and conditions involving retinal ganglion cell degeneration, #sensory neuropathy caused by injury to, insults to, or degeneration of, sensory neurons, pathological conditions, or disease or injury-related retinopathies. The products can also be used for detection, diagnosis,
                                                                                                                                                               used to develop products for treating dopaminergic nerve cells, Parkinson's
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    neurological disorder; diabetes; glaucoma; sensory neuron;
retinal ganglion cell degeneration; sensory neuropathy;
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                                                                                                                                                                isolated glial cell line-derived neurotrophic factor receptors d to develop products for treating e.g. improperly functioning aminergic nerve cells, Parkinson's disease, Alzheimer's disease
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improperly
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25-APR-2000;
09-JUL-2000;
19-JUL-2000;
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14-SEP-2000;
19-OCT-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        dopaminergic nerve cells, Parkinson's disease, Alzheimer's disease or amyotrophic lateral sclerosis. They can also be used for treating neurological disorders associated with diabetes, glaucoma or other diseases and conditions involving retinal ganglion cell degeneration, #sensory neuropathy caused by injury to, insults to, or degeneration of, sensory neurons, pathological conditions, or disease or injury-related retinopathies. The products can also be used for detection, diagnosis,
The invention relates to human nucleic acids (AAI57798-AAI61369) and the encoded polypeptides (AAM38642-AAM42213) with nootropic, immunosuppressant and cytostatic activity. The polynucleotides are us in gene therapy. A composition containing a polypeptide or polynucleo
                                                                                                                                                       Tang
Wang
                                                                                                                                                                                                                                                                                                                                                                                                            peripheral nervous system; neuropathy; central nervous system; C
Alzheimer's; Parkinson's disease; Huntington's disease; haemosta
amyotrophic lateral sclerosis; Sdy-Drager Syndrome; chemotactic;
chemokinetic; thrombolytic; drug screening; arthritis; inflammat
                                                                                                            N-PSDB;
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                                                        Example
                                                                                        Novel
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μP,
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2000US-0552317.
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Wehrman T,
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s system; neuropathy; central nervous system; CNS;
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06-NOV-1997;
14-NOV-1997;
18-NOV-1997;
27-NOV-1997;
10-DEC-1997;
Amino acid sequences AAY38499-Y38944 represent Neisseria meningitidis and N. gonorrhoeae antigenic proteins. They are encoded by open reading frames (ORFs) AAZ11972-212338. The antigenic proteins, their fragments, their nucleic acids and antibodies are used for diagnosis, prevention (as vaccines) or treatment of Neisseria infections, such as meningitis, septicaemia and gonorrhea. Both organisms are closely related. Fragments of the nucleic acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral scierosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Immune system suppression, Activinyinhibin activity, chemotactic/chemokinetic activity, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and cassays for receptor activity, arthritis and inflammation, leukaemias and
                                                                                                                   Claim 4; Page 331; 524pp; English.
                                                                                                                                              diagnosis,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAY38787 standard; Protein; 513 AA
                                                                                                                                              Proteins from Neisseria meningitidis and N. gonorrhoeae useful for diagnosis, treatment and prevention of infection
                                                                                                                                                                                         N-PSDB; AAZ12222
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Ote: The sequence data for this patent did not form part of the printed
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                                                                                                                                                                                                                                                                                       98GB-0019016.
97GB-0023516.
97GB-0024190.
97GB-0025158.
97GB-0025158.
97GB-0026147.
98GB-0000759.
                                                                                                                                                                                                                                                                                                                                                                                                         98WO-IB01665
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40. 1.4e+03;
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     /note="Wild-Type 53..53
                                            /note="Wild-Type 48..48
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15..15
                                                                 /note="Wild-Type 34..34
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/note="Wild-Type
/label=R,
                               /label=T, K
/note="Wild-Type
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/note="Wild-Type Misc-difference 61..61

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/note="Wild-Type i e 60..60

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/note="Wild-Type 57..57

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/note="Wild-Type 54..54

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Introducing random point mutations into nucleic acids by prepn of single stranded template, annealing a primer, misincorporation, completion of molecules and screening.
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428..428
/label=F,
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435..435
/label=F,
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351..351
/label=S,
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/note="WT
337..337
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/label=C,
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DB 9; Length 515; . 1.4e+03;
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                             elongation,
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/note="WT 250..250

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/note="WT 138..138

/label=P,

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/note="WT 137..137

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/label=P, /note="WT 333..333

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/label=A, /note="WT 332..332

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/label=F, L /note="WTis 331..331

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/note="WT 291..291

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/label=F, /note="WT 277..277

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/label=D, /note="WT 265..265 /note="WT 264..264

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/note="Wild-Type Misc-difference 134..134

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                                                                                                                                                                                                                                                                                                                                                             Cyclomaltodextrin glucanotransferase; CGTase; enzyme; Bacillus circulans; thermoanaerobacter; starch; cyclomaltodextrin; cyclodextrin; pesticide; transglycosylation; cyclic glucose ollgomer; glucose ollgosaccharide; cholesterol removal; food stabiliser; vitamin stabiliser; fungicide; plastic laminate; biodegradable plastic; mutein.
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                                                                                                                                                                                                                                                                                                                                                                                                        Bacillus CGTase variant beta-cyclodextrin #1
                                                                                                                                                                                                                                                                                                                                                                                                                      30-JUN-1997
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/note= "x= Gly, i
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/noteo "Xo Pro,
89
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/noteo "Xo Gly, a
95
             /notes
147
                                                                                                                                                                                   /note= "Xo Ala, Val, 92
                                                                                                                                                                                                                                   /labelo Y89X
/note= "Xo Asp, absent"
                                                                                                                                                                                                                                                                                          /note= "X= Ala,
87
/note^{\circ} "insertion of Pro, Ala, Ile, 148
                                  /note-
146
                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
21
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                                                                     /note= "x= Gly,
136
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/note- "X= Gly,
                                                                                                                      /note:
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                                         /label- H140x
/note- "X- Ala,
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'noteo "Xo Gln,
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                           'label-
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                   "X- Ala,
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                     /label= D373X
/note= "X= Asp,
377
/label= R375x
/note= "X= Ala,
602
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/note= "X= Ala,
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197
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/note= "X= Pro, Ala,
                                                                                                                    /label= F259X
/note= "X= Phe,
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/note= "X= Asp,
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/note= "X= Ala,
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/note= "X= Phe,
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/note= "X= Gly,
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/note= "X= Gly,
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                                                                                                        abel- E264Q
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                                                                                                                                                                                                                                                                      .abel= K192R
                                                                                                                                                                                                                                                                                                                                                                      .abel= N178Y
                                                                                                                                                                                                                                                                                                                                                                                    abel- T168S
                                                                                                                                                                                                                                                                                                                                                                                                                      abel- S150A
                                                                                                                                                                                                                                                                                                                                                                                                                                   abel- P149W
                                                                                                                                                                                                                                                                                                                                                                                                                                                 - Q148X
"X= Gly,
                                                                                                                                          "X= His,
                                                                                                                                                                                                                                                "X- Gly,
                                                                                                                                                                                                                                                                                                                                                                                                  "X= Ala,
                                               "X= Ala,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Lys, Asp,
                                                       D371X
                                                                                                                                                                                                                                                                                   Pro,
                                                                                                                   Trp,
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absent"
                           Glu,
                                                                                  Phe,
                                                                                                                                                             Gln,
                                                                                                                                                                                   Glu,
                                                                                                                                                                                                       Asp,
                                                                                                                                                                                                                                                                                                                                                 Ser,
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       Pro,
                                               Asp,
                                                                                                                                          Gln,
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                                                                                                                                                                                                                                                                                   His,
                                                                                                                                                                                                                                                                                                                             Ser,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 la, Phe, Gln, Ser,
Asn, or absent"
                                                                                                                                          Asn,
                                                                                                                                                                                    Leu"
                                                                                                                                                                                                                                                                                                        Tyr,
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     Gly, Arg,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ile,
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RESULT 19
AAW17577
ID AAW175
XX AAW175
AC AAW175
XX
DT 30-JUN
XX
DE Bacill
XX
DE Bacill
XX
Cyclom
KW thermo
KW thermo
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                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                         Query Match
Best Local
                                                                                                                                                                                                                                                                                                      The mutants are created using primer mutagenesis to modify the gene encoding this sequence. These sequences have greater product selectivity and/or reduced product inhibition (better yields) than wild-type CGTase. These mutant sequences are used to manufacture the 6 main CD types (comprising 6-11 glucose units), or linear 2-12 glucose oligosaccharides, optionally in situ, e.g. during production of baked goods, to stabilise chemicals during their manufacture and in detergents. CD are known for their usefulness in foods, e.g. as a bread-improving agent, to encapsulate/stabilise/solubilise vitamins, dyes, pharmaceuticals, pesticides or fungicides, to bind/remove lipophilic compounds such as cholesterol (e.g. in egg yolk or butter), in plastic laminates, films etc. and to make biodegradable plastics.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16-NOV-1995;
21-APR-1995;
17-OCT-1995;
Cyclomaltodextrin glucanotransferase; CGTase; enzyme; Bacillus circulans; thermoanaerobacter; starch; cyclomaltodextrin; cyclodextrin; pesticide; transglycosylation; cyclic glucose oligomer; glucose oligosaccharide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 (also known as cyclodextrins) via an intramolecular transglycosylation reaction. Cyclodextrins (CD) are cyclic glucose oligomers with a hydrophobic internal cavity that form inclusion complexes with many small hydrophobic molecules. These CGTase mutants have a modified substrate binding and/or product selectivity, compared to this sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAW17568-W17579, and AAW17592-W17605 represent mutant versions of the cyclomaltodextrin glucanotransferase (CGTase) of Bacillus circulans strain 251 (see AAW06773 for wild type sequence). CGTase catalyses the conversion of starch and similar substrates into cyclomaltodextrins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim
                                                Bacillus CGTase variant beta-cyclodextrin #3
                                                                         30-JUN-1997
                                                                                                                      AAW17577 standard;
                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New variants of cyclo:malto:dextrin glucanotransferase (CGTase) - have altered substrate binding, useful for prodn. of cyclodextrin(s) or linear oligosaccharide(s), opt. formed in situ in e.g. baked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Andersen C,
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                                                                                                                                                                                                                                                                                      688 AA;
                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Dijkhuizen L,
                                                                        (first entry)
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95DK-0000477.
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/note= "X= unspecified amino acid"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     161pp; English.
                                                                                                                     protein;
                                                                                                                                                                                                                                      37.5%;
                                                                                                                                                                                                                            0;
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                                                                                                                                                                                                                                      Score 3; DB 17; L
Pred. No. 1.7e+03;
                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Von Der Osten
                                                                                                                                                                                                                            0;
                                                                                                                                                                                                                                                Length 688;
                                                                                                                                                                                                                            Indels
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                                                                                                                                                                                                                            Gaps
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    cholesterol removal; food stabiliser; vitamin stabiliser; fungicide; plastic laminate; biodegradable plastic; mutein.
  Modified-site
                                       Modified-site
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92
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87
                                                                                                                                                                                                                                                                                                                                                                                           /note=
136
   /note=
182
                                                                                                                       /label= P149W
152
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151
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers 21
                                        181
                                                                                                                                                                                         /label= D147X
/note= "X= Ala, Leu,
or absent"
                                                                                                                                                                                                                                                    /note=
                                                                                                                                                                                                                                                             /label=
                                                                                                                                                                                                                                                                                                        /label= S145x
/note= "X= Ala, Glu, Trp, Leu"
                                                                                                                                                                                                                                                                                                                                                                                                                                          /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /label= N94X
/note= "X= Gln,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /label= Y89X
/note= "X= Gly,
                            /label=
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                                                                                    /label= Y167X
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                                                                                                                                                                                                                                                                                                                                             /note= "X= Ala,
                                                                                                                                                                                                                                                                                                                                                                             /label= D135L
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /note=
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                                                'label=
                                                                                                           /label= S150A
                                                                                                                                                                                                                                                                                     note= "insertion of Pro, Ala,
                                                                                                                                                                                                                                                                                                                                                          /label= H140X
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              note= "possible insertion of Ala, Val, Gly, or Tyr"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /label= G91X
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"X= Pro,
               "X= Ser,
                                                                        "X= Ala,
                                                                                                                                                        "X= Gly,
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                                                                                                                                                                                                                                                    Ala,
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              Asn, Asp"
                                                                                                                                                        Asn, Ala, Gln"
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                                                                         Phe"
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absent"
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                                                                                                                                                                                                       Arg, Asp,
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Lys,

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16-NOV-1995;
21-APR-1995;
17-OCT-1995;
 AAW17568-W17579, and AAW17592-W17605 cyclomaltodextrin glucanotransferase
                        Claim 40; Page -; 161pp; English.
                                              New variants of cyclo:malto:dextrin glucanotransferase (CGTase) - have altered substrate binding, useful for prodn. of cyclodextrin(s) or linear oligosaccharide(s), opt. formed in situ in e.g. baked
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                                                                               WPI; 1996-485774/48.
                                                                                             Andersen C, Dijkhuizen L,
                                                                                                              (NOVO ) NOVO-NORDISK AS
                                                                                                                                                             22-APR-1996;
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95DK-0000477.
95DK-0001173.
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/note "X 185
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375
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373
                                                                                                                                                                                                                                                                                                        /note "Xo Gln,
                                                                                                                                                                                                                                                                                                                                                /note= "xo Phe, 266
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187
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /notes "Xo Gly, Ala"
197
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195
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/note- "X- Ala,
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/note~ "X~ Gln,
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/note~ "X~ Gln,
                                                                                                                                                                                                                                                                                                                                                                                                                            /note: "X- Asp,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /note- "X- Leu,
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                                                                                                                                                                                                                                                                                                                                       abel- E264Q
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                                                                                                                                                                                                          "X- unspecified amino acid"
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"X- Ser, Asn, Asp"
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                                                                                              Dijkstra
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gly,
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                                                                                                                                                                                                                                 Pro,
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                                                                                                                                                                                                                                                                                                               Phe,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tyr,
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                                                                                              BW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Arg,
represent mutant versions of the (CGTase) of Bacillus circulans
                                                                                                                                                                                                                                                                                                                                                       Ala"
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                                                                                                                                                                                                                                  Gly, Lys"
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                                                                                              Von
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Вb
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AAW17573
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    These mutant sequences are used to manufacture the 6 main CD types (comprising 6-11 glucose units), or linear 2-12 glucose oligosaccharides, optionally in situ, e.g. during production of baked goods, to stabilise chemicals during their manufacture and in detergents. CD are known for their usefulness in foods, e.g. as a bread-improving agent, to encapsulate/stabilise/solubilise vitamins, dyes, pharmaceuticals, pesticides or fungicides, to bind/remove lipophilic compounds such as cholesterol (e.g. in egg yolk or butter), in plastic laminates, films etc. and to make biodegradable plastics.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           strain 251 (see AAW06773 for wild type sequence). CGTase catalyses the conversion of starch and similar substrates into cyclomaltodextrins (also known as cyclodextrins) via an intramolecular transglycosylation reaction. Cyclodextrins (CD) are cyclic glucose oligomers with a hydrophobic internal cavity that form inclusion complexes with many small hydrophobic molecules. These CGTase mutants have a modified substrate binding and/or product selectivity, compared to this sequence. The mutants are created using primer mutagenesis to modify the gene encoding this sequence. These sequences have greater product selectivity and/or reduced product inhibition (better yields) than wild-type CGTase.
                                                                                                                                                                                                                                                                                                                                                                                                                Cyclomaltodextrin glucanotransferase; CGTase; enzyme; Bacillus circulans; thermoanaerobacter; starch; cyclomaltodextrin; cyclodextrin; pesticide; transglycosylation; cyclic glucose oligomer; glucose oligosacharide; cholesterol removal; food stabiliser; vitamin stabiliser; fungicide;
                              Misc-difference
                                                                         Modified-site
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 97 ayxg 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5 ayxg
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CGTase variant beta-cyclodextrin #2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 æ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           688 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                           /label= F21Y
47
                                                                                                                                                                                                                                             /note= "X= Ala,
/note= "possible insertion of Ala, 93
                           /note= "X= Ala, Val, Ser, Thr"
                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
                                                                                        /note= "X=
                                                                                                        /label= S90X
                                                                                                                                     /note= "X= Asp,
                                                                                                                                                     /label= Y89X
                                                                                                                                                                                'note=
                                                                                                                                                                                                  /label- N88X
                                                                                                                                                                                                                             /label- 187H
                                                                                                                                                                                                                                                                            /label= R47X
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         protein; 688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           37.5%;
                                                                                                                                                                                  "X= Pro,
                                                                                      Gly, Ala"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 3; I
                                                                                                                                                                                                                                                            Gln,
                                                                                                                                     Gly,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                  Asn,
                                                                                                                                                                                Lys,
                                                                                                                                                                                                                                                            His, Arg, ",'u"
                                                                                                                                     Ala,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 17; L
o. 1.7e+03;
                                                                                                                                                                                  His"
                                                                                                                                   Lys, Arg, Pro, Glu or absent"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
           Val, Gly, Phe, or Tyr"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0;
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94
                                                                                                                                                                                                                                                                                                                                                                             /note=
147
                                                                                                                                                                                                                                                                                                                                   149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /note= "X= Gln, 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /note= '"x= Gly, His, Thr, or absent" 95
                                                    198
                                                                         /note=
197
                                                                                               195
                                                                                                                                  /note= "X= Trp,
187
                                                                                                                                                                            /note= "X= Ser,
182
                                                                                                                                                                                                                                                    169
                                                                                                                                                                                                                                                                                /label= Q148x
/note= "X= Gly,
151
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                                                                                                                                                                                                                                                                                                                                                             148
                                                                                                                                                                                                                                                                                                                                                                                                   146
                                                                                                                                                                                                                                                                                                                                                                                                                                      136
                                                                                                                                                                                                                180
                                                                                                                                                                                                                                                                                                                  /label= D147x
/note= "X= Ala,
                                                                                                                                                                                                                                                                                                                                                /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                            102
             /note= "X= Asp,
                                   /label= D196X
/note= "X= Ala,
                                                         /note= "X= Leu,
                                                                                                                   /note= "X= Pro,
                                                                                                                                               /label= F183X
                                                                                                                                                                                                                                                                                                                                                                                                         /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                           /label= W101X
/note= "X= Gly, Ala"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /label= N93X
                     'label= L197x
                                                                 /label= L195X
                                                                              'label= N193X
'note= "X= Gly,
                                                                                                                          /label= T185X
                                                                                                                                                             note= "X= Ser,
                                                                                                                                                                      /label=
                                                                                                                                                                                           /label= G179X
                                                                                                                                                                                                         /label= N178Y
                                                                                                                                                                                                                                     note= "X= Ala,
                                                                                                                                                                                                                                             /label= Y167X
                                                                                                                                                                                                                                                          /label= S150A
                                                                                                                                                                                                                                                                        'label= P149W
                                                                                                                                                                                                                                                                                                                                                       /label=
                                                                                                                                                                                                                                                                                                                                                                    note= "insertion of Pro, Ala, Ile, Gln,
                                                                                                                                                                                                                                                                                                                                                                                           /label= S145X
                                                                                                                                                                                                                                                                                                                                                                                                               /label= H140X
                                                                                                                                                                                                                                                                                                                                                                                                                              /label= D135L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  note= "X= Gly,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /label= N94X
                                                                                                     .abel= K192R
                                                                                                                                                                                                                       abel= T168S
                                                                                                                                                                                                                                                                                                                                         "X= Pro, Ala, Phe, Gln, Ser,
Lys, Asp, Asn, or absent"
                                                                                                                                                                                                                                                                                                                                                                                                        "X= Ala,
                                                                                                                                                                                                                                                                                                                                                                                  "X= Ala, Glu, Trp, Leu"
                                                                                                                                                                      G180x
                                                                                                                                                                                                                                                                                                                                                       S146X
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  V92G
                                                                                                                                                                                                                                                                                                            Thr, or
                                                                                                                                                                                                                                                                                                            Leu, Ile,
absent"
                                    Gly,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ala"
                                                         Ile,
                                                                                                                                                                                                                                                                                                                                                                                                        Arg, Asn"
                                                                               Ala"
               Glu"
                                                                                                                  His, Arg, Glu, Asp"
                                                                                                                                       Tyr, Ala'
                                                                                                                                                                                   Asn,
                                                                                                                                                                                                                                     Phe"
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                                                                                                                                                              Asn,
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                                                         Trp, Phe"
                                                                                                                                                             Asp"
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                                                                                                                                                                                                                                                                                                                  Gly,
                                                                                                                                                                                                                                                                                                                                                Trp,
                                                                                                                                                                                                                                                                                                                                                                     or
                                                                                                                                                                                                                                                                                                                  Tyr, Arg, Asp.
                                                                                                                                                                                                                                                                                                                                                Ile,
                                                                                                                                                                                                                                                                                                                                               Arg, Glu,
Sequence
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Conversion of starch and similar substrates into cyclomaltodextrins (CC (also known as cyclodextrins) via an intramolecular transglycosylation (C (also known as cyclodextrins) via an intramolecular transglycosylation (C reaction. Cyclodextrins (CD) are cyclic glucose oligomers with a cyclomattodextrins (CC small hydrophobic molecules. These CGTase mutants have a modified (C substrate binding and/or product selectivity, compared to this sequence. These coding this sequence. These sequences have greater product selectivity condoing this sequence. These sequences have greater product selectivity and/or reduced product inhibition (better yields) than wild-type CGTase. (comprising 6-11 glucose units), or linear 2-12 glucose oligosaccharides, optionally in situ, e.g. during production of baked goods, to stabilise (chemicals during their manufacture and in detergents. CD are known for C their usefulness in foods, e.g. as a bread-improving agent, to gestlicides or fungicides, to bind/remove lipophilic compounds such as C cholesterol (e.g. in egg yolk or butter), in plastic laminates, films card on make biologorabable classics.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16-NOV-1995;
21-APR-1995;
17-OCT-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAW17568-W17579, and AAW17592-W17605 represent mutant versions of the cyclomaltodextrin glucanotransferase (CGTase) of Bacillus circulans strain 251 (see AAW06773 for wild type sequence). CGTase catalyses the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New variants of cyclo:malto:dextrin glucanotransferase (CGTase) - have altered substrate binding, useful for prodn. of cyclodextrin(s) or linear oligosaccharide(s), opt. formed in situ in e.g. baked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 34; Page -;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1996-485774/48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Modified-site
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                22-APR-1996;
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make biodegradable plastics
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95DK-0000477.
95DK-0001173.
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375
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235
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266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /label= R375X
/note= "X= Ala,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /label=
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/note= "X= Asp,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /label=
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/note= "X= Gln,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                'label= F259X
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  label= E264Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      161pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               = D371X
= "X= Ala,
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"X= Gln,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "X= unspecified amino acid"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "X= Phe,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Dijkstra BW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Glu,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Leu"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tyr"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Leu"
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RESULT 2
AAW17570
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                    Cyclomaltodextrin glucanotransferase; CGTase; enzyme; Bacillus circulans; thermoanaerobacter; starch; cyclomaltodextrin; cyclodextrin; pesticide; transglycosylation; cyclic glucose oligomer; glucose oligosaccharide; cholesterol removal; food stabillser; vitamin stabiliser; fungicide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAW17570 standard; protein; 689
               Modified-site
                                                                                                                                                                                  Misc-difference
                                                                                                                                                                                                                                                                                                                      Modified-site
                                                                                                                                                                                                                                                                                                                                     Key
Modified-site
                                                                                                                                                                                                                                                                                                                                                             Synthetic
                                                                                                                                                                                                                                                                                                                                                                             plastic laminate; biodegradable plastic; mutein.
                                                                                                                                                                                                                                                                                                                                                                                                                           Bacillus CGTase variant gamma-cyclodextrin #1.
                                                                                                                                                                                                                                                                                                                                                                                                                                            30-JUN-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAW17570;
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                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                               /label= R47X
/note= "X= Ala, =
87
                                                                                                                                                                                                                                                                                                                       /label⇔ F21Y
47
                                                                                                                           /note=
95
                                                                                                                                                                                  /note=
92
              /notes
                                                                                                                                                                                                                                 /note= "X= Asp,
90
                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                    /label~ H98X
/note= "X~ Gly,
                                                                                                                                                                                                                /note=
                                                                                                           note-
                                                                                                                                  /label~ N93X
/note= "X~ Gly,
                                                                                                                                                                                                                                                                note⊃ "X- Pro,
                      /label- H140x
/note- "X- Ala,
                                                                                                                                                          'label-
                                                                                                                                                                                                                                                                                       label 187H
       'label- S145x
                                              'label⇔ D135L
                                                                    label- w101x
                                                                                                                     'label- N94X
                                                                                                                                                                          note= "possible insertion of Ala, Val, Gly, Phe,
                                                                                                                                                                                                                label S90x
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                                                                                                                                                                                                                                                                       label- N88x
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                37.5%; Score 3; DB 17; L
100.0%; Pred. No. 1.7e+03;
tive 0; Mismatches 0;
                                                                                                           "X∽ Gln,
                                                                                                                                                                                         "Xo Ala,
                                                             "X~ Gly,
"X∷ Ala, Glu, Trp,
                                                                                                                                                           V92G
                                                                                                                                                                                                 G91X
                                                                                     Ala"
                                                                                                           Lys,
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                                                                                                                                                                                                                      The mutants are created using primer mutagenesis to modify the gene encoding this sequence. These sequences have greater product selectivity and/or reduced product inhibition (better yields) than wild-type CGTase. These mutant sequences are used to manufacture the 6 main CD types (comprising 6-11 glucose units), or linear 2-12 glucose oligosaccharides, optionally in situ, e.g. during production of baked goods, to stabilise chemicals during their manufacture and in detergents. CD are known for their usefulness in foods, e.g. as a bread-improving agent, to encapsulate/stabilise/solubilise vitamins, dyes, pharmaceuticals, pesticides or fungicides, to bind/remove lipophilic compounds such as cholesterol (e.g. in egg yolk or butter), in plastic laminates, films etc. and to make biodegradable plastics.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                16-NOV-1995;
21-APR-1995;
17-OCT-1995;
           30-JUN-1997
                                                  AAW17574 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New variants of cyclo:malto:dextrin glucanotransferase (CGTase) have altered substrate binding, useful for prodn. of cyclodextrin(s) or linear oligosaccharide(s), opt. formed in situ in e.g. baked
                                  AAW17574;
                                                                                                                                                                                                                                                                                                                                                 reaction. Cyclodextrins (CD) are cyclic glucose oligomers with a hydrophobic internal cavity that form inclusion complexes with many small hydrophobic molecules. These CGTase mutants have a modified substrate binding and/or product selectivity, compared to this sequence.
                                                                                                                                                                                                                                                                                                                                                                                           cyclomaltodextrin glucanotransferase (CoTase) of Bacillus circulans strain 251 (see AAW06773 for wild type sequence). CoTase catalyses the conversion of starch and similar substrates into cyclomaltodextrins (also known as cyclodextrins) via an intramolecular transglycosylation
                                                                                                                                                                                                      Sequence
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148
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/note~ "X~ Ala,
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/note~ "x~ Ala,
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/note- "X- Gly,
                                                                                                                                                                                                                                                                                                                                                 /label T185x
/note "X- Pro,
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/note- "X- Trp,
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                                                                                 /label- L600x
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"X∽ Gln,
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Best Local Similarity
Matches 4; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The mutants are created using primer mutagenesis to modify the gene encoding this sequence. These sequences have greater product selectivity and/or reduced product inhibition (better yields) than wild-type CGTase. These mutant sequences are used to manufacture the 6 main CD types (comprising 6-11 glucose units), or linear 2-12 glucose oligosaccharides, optionally in situ, e.g. during production of baked goods, to stabilise chemicals during their manufacture and in detergents. CD are known for their usefulness in foods, e.g. as a bread-improving agent, to encapsulate/stabilise/solubilise vitamins, dyes, pharmaceuticals, pesticides or fungicides, to bind/remove lipophilic compounds such as cholesterol (e.g. in egg yolk or butter), in plastic laminates, films etc. and to make biodegradable plastics.
                                                                                                                                                                                                           Cyclomaltodextrin glucanotransferase; CGTase; enzyme; Bacillus circulan thermoanaerobacter; starch; cyclomaltodextrin; cyclodextrin; pesticide; transglycosylation; cyclic glucose oligomer; glucose oligosaccharide; cholesterol removal; food stabiliser; vitamin stabiliser; fungicide; plastic laminate; biodegradable plastic; mutein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 reaction. Cyclodextrins (CD) are cyclic glucose oligomers with a hydrophobic internal cavity that form inclusion complexes with many small hydrophobic molecules. These CGTase mutants have a modified substrate binding and/or product selectivity, compared to this sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAW17568-W17579, and AAW17592-W17605 represent mutant versions of the cyclomaltodextrin glucanotransferase (CGTass) of Bacillus circulans strain 251 (see AAW06773 for wild type sequence). CGTasse catalyses the conversion of starch and similar substrates into cyclomaltodextrins
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or linear oli
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Andersen C,
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/note= "X= Ala,

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His,

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102
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188
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151
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AAW17568-W17579, and AAW17592-W17605 represent mutant versions of the cyclomaltodextrin glucanotransferase (CGTase) of Bacillus circulans strain 251 (see AAW06773 for wild type sequence). CGTase catalyses the conversion of starch and similar substrates into cyclomaltodextrins (also known as cyclodextrins) via an intramolecular transglycosylation reaction. Cyclodextrins (CD) are cyclic glucose oligomers with a hydrophobic internal cavity that form inclusion complexes with many small hydrophobic molecules. These CGTase mutants have a modified substrate binding and/or product selectivity, compared to this sequence. The mutants are created using primer mutagenesis to modify the gene encoding this sequence. These sequences have greater product selectivity and/or reduced product inhibition (better yields) than wild-type CGTase.
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21-APR-1995;
17-OCT-1995;
These mutant
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                                                                                                                                                                                                                                                                                                                                   The sequences given in AAR48507-37 are peptides derived by the decomposition of lactoferrin, pref. by digestion with an enzyme, expensin or trypsin. These peptides may be used in an antioxidant composition which may also contain an oxidation inhibitor such as vitamin E, ascorbic acid, vitamin A, beta-carotene, superoxidase dismutase or coenzyme Q. The antioxidant prevents lipid oxidation in foodstuffs, drugs, health foods, toiletries and cosmetics.
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Search completed: January 14, Job time: 727 sec

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RESULT
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Best Local
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                                                                                                                                                                                                                                       Claim 1; Page 10;
                                                                                                                                                           also requires no preservative.
                                                                                                                                                                       The present peptide is a bovine lactoferrin derived, angina pectoris treatative agent. It has low toxicity and side effects, is heat resistant, water soluble and stable in an aq. soln. It
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                                                                                                                            Sequence
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US-08-428-488-61
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US-08-165-545-8
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; Patent No. 5424396
                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.2
COMPUTER: IBM COmpatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: DisplayWrite
CURRENT APPLICATION DATA:
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                                                                                        TELEX:
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 3 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: amino ac
STRANDEDNESS:
TOPOLOGY: line
MOLECULE TYPE:
HYPOTHETICAL:
ANTI-SENSE:
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FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/871,981
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Mamoru TOMITA et al.
TITLE OF INVENTION: Antimicrobi.
TITLE OF INVENTION: Antimicrobi.
NUMBER OF SEQUENCES: 13
CORRESCONVENCES: 13
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                                                                                                                                                                     TELECOMMUNICATION INFORMATION: TELEPHONE: 202-371-8850
                                                                                                                                                                                                                             ATTORNEY/AGENT INFORMATION: NAME: Warren M. Cheek, J
                                                                                                                                                                                                                                                                                                                                                                                                                                         STREET: 805 Fifte CITY: Washington STATE: D.C. COUNTRY: U.S.A. ZIP: 20005
                                                                                                                                                                                                            NAME: Warren M. Cheek, Jr. REGISTRATION NUMBER: 33,367
                                                                                                                                                     TELEFAX:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE: Wenderoth,
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Result No.

FRAGMENT TYPE:
ORIGINAL SOURCE:

ORGANISM:

CELL TYPE: CELL LINE:

TISSUE TYPE:

DEVELOPMENTAL STAGE:

INDIVIDUAL ISOLATE:

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; MOLECULE TYPE: US-08-305-768-27
                                                                                                                                                                                                                                                                          RESULT 2
US-08-305-768-27
; Sequence 27, Application US/08305768
; Patent No. 5602097
; GENERAL INFORMATION:
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                                                                                              CLASSIFICATION: 514
INFORMATION FOR SEQ ID NO:
                                                                                                                                                 MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                   SEQUENCE CHARACTERISTICS:
LENGTH: 3 amino acids
                                                                                                                                                                                                                                  TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                       COMPUTER READABLE FORM:
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LOCATION:
                           TOPOLOGY: 11
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PUBLICATION DATE:
RELEVANT RESIDUES IN SEQ ID
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                                                      amino acid
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              peptide
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; TOPOLOGY: lir
; MOLECULE TYPE:
US-08-256-771-17
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Best Local S
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Best Local Similarity
Matches 2; Conserv
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APPLICANT: Mamoru
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2005
2IP: 2005
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25
MEDIUM TYPE: IBM Compatible
TYPER: IBM Compatible
             APPLICANT: Mamoru TOMITA et al. TITLE OF INVENTION: ANTIOXIDAN
                                                                                                                                                                                                                                                                                                                                                                      REFERENCE/DOCKET NUMBER: TELECOMMUNICATION INFORMATION: TELEPHONE: 202-371-8850
                                                                                                                                                                                                                                                                                                                                                                                                       ATTORNEY/AGENT INFORMATION:
NAME: Warren M. Cheek, Jr.
REGISTRATION NUMBER: 33,367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US/08/
FILING DATE: July 22, 1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: Wordperfect 5.1 CURRENT APPLICATION DATA:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
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STREET: 80
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2 wr 3
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805 Fifteenth Street, N.W.,
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linear
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 ANTIOXIDANT
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WS-08-871-163-27
US-08-871-163-27
Sequence 27, Application US/08871163
Patent No. 5885782
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Matches 2; Conserv
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
CLASSIFICATION: 435
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 3 amino acids
                                                                                                                                                                                                                              GENERAL INFORMATION:
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REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-8850
TELEFAX:
                                                                                                                                                                           APPLICANT:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
                                                                                       COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Floppy disk
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION: 252 PRIOR APPLICATION DATA:
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FILING DATE: April 11, 1995
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                                                              FILING DATE:
                                                                          APPLICATION NUMBER:
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STRANDEDNESS: sir
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805 Fifteenth Street, N.W., #700
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100.0%; Pr
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US-08-871-163-27
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; MOLECULE TYPE:
US-08-767-903-27
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; Sequence 27, Application PC/TUS9511724
; GENERAL INFORMATION:
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US-08-767-903-27
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Matches 2; Conserv
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INFORMATION FOR SEQ ID NO:
                                            INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS: LENGTH: 3 amino acids
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                                                                                                          CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/11724
                                                                                                                                                                                                    TITLE OF INVENTION: Antifungal Peptides NUMBER OF SEQUENCES: 31 COMPOTER READABLE FORM: MEDIUM TYPE: Floppy disk
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                        LENGTH:
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COMPUTER: IE
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1 wr 2
                                                                                                                                                      MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
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OPERATING SYSTEM: PC-DOS/MS-DOS
TYPE: amino acid STRANDEDNESS:
                                                                             CLASSIFICATION:
                                                                                             FILING DATE
                                                                                                                                         SOFTWARE
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100.0%; Pred. No.
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; TOPOLOGY: linear; MOLECULE TYPE: peptide PCT-US95-11724-27
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Best Local Similarity 100
Matches 2; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM Compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: DisplayWrite
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
LENGTH: 4 amino acids
                                                                                                                                                                                                                                                                                                                                                                          NAME: Warren M. Cheek, Jr. REGISTRATION NUMBER: 33.367
REFERENCE/DOCKET NUMBER: TELECOMMUNICATION INFORMATION:
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                                                                                                                                                        FRAGMENT TYPE:
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                    ATTORNEY/AGENT INFORMATION:
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ADDRESSEE: Wenderoth,
IMMEDIATE SOURCE:
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                             CELL TYPE:
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                ORGANELLE:
                                                               TISSUE TYPE:
                                                                                          INDIVIDUAL ISOLATE: DEVELOPMENTAL STAGE:
                                                                                                                                                                                                                                    STRANDEDNESS:
TOPOLOGY: lir
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805 Fifteenth Street, N.W., #700
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100.0%; Pr/
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0; Mismatches
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No. 1.6e+05;
0;
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US-08-190-802A-265 
; Sequence 265, Application US/08190802A 
; Patent No. 5519003
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Best Local Similarity
Whiches 2; Conserve
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                                                                          TELEFAX: (415) 324-096
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                     COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/190,802A
FILING DATE: 01-FEB-1994
CLASSIFICATION: 530
                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
NAME: Fabian, Gary R.
REGISTRATION NUMBER: 33,875
                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Mochly-Rosen, Daria
APPLICANT: Ron, Dorit
TITLE OF INVENTION: wD-40 - De:
TITLE OF INVENTION: Thereof
NUMBER OF SEQUENCES: 265
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                                                                                                                                          REFERENCE/DOCKET NUMBER: 86
TELECOMMUNICATION INFORMATION:
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 MOLECULE TYPE:
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CITY: Palo Alto
STATE: CA
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VOLUME:
                TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                   COUNTRY: USA
ZIP: 94306-0850
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DATE:
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                                               TYPE:
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O. Box 60850
peptide
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100.0%; Prr
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GENERAL INFORMATION:
APPLICANT: Schill
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                                                                            Query Match
Best Local
                                                             Matches
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INFORMATION FOR SEQ ID NO:
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ANTI-SENSE: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: WRTA peptide
                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Sterner Ph.D., Richard J.
REGISTRATION NUMBER: 35,372
REFERENCE/DOCKET NUMBER: 110332
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-819-8783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY: U.S.A.
ZIP: 10036-2787
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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LENGTH: 4 umino acids
TYPE: amino acid
TOPOLOGY: linear
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ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                              MOLECULE TYPE:
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OTHER INFORMATION: /labs
OTHER INFORMATION: /nots
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TELEPHONE: 212-354-8113
                                                           Local Similarity 100 ics 3; Conservative
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OTHER INFORMATION: /note- "1,2,3,4-tetrahydroisoguinoline-3-carboxylic acid"
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1155 Avenue of the Americas
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              04-JAN-1994
                                                                                                                                                                                                                                                                                                              peptide
                                                        25.0%; Score 2; DB 100.0%; Pred. No. 1. 101.0%; Live 0; Mismatches
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/notes "phenylglycine"
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No. 1.6e+05;
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No. 1.6e+05;
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; OTHER INFORMATION: ; OTHER INFORMATION: US-08-215-137-11
                                            Query Match
Best Local Similarity
....ches 2; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: (908) 594-4721
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 4 amino acids
                                                                                                                                                                                                              FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                            HYPOTHETICAL: N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEPHONE: (908) 594-3901
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CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                             FRAGMENT TYPE:
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                                                                                                                                                                               NAME/KEY:
LOCATION:
                                                                                                                                                                                                                                                                                                                                NAME/KEY;
LOCATION:
                                                                                                                                                                                                                           OTHER INFORMATION: OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                OTHER INFORMATION: /label= Tic OTHER INFORMATION: /note= "tetrahydroisoguinoline carboxyllic acid"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Bencen, Gerard REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM PC
OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CITY: Rahway
                                                                                                                                                                                                                                                                       NAME/KEY: Modified-site
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER:
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126 Linclon Ave., P.O. Box 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         United States of America
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (908) 594-4720
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Springer, Martin
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                                                           Conservative
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IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
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                                                       25.0%; Score 2; DB 100.0%; Pred. No. 1.1 tive 0; Mismatches
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/note= "D-arginine"
                                                                                                                                                                                                                           /label= dCha
/note= "D-cyclohexylalanine"
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o. 1.6e+05;
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; OTHER INFORMATION: ; OTHER INFORMATION: US-08-428-488-59
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US-08-428-488-60
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Best Local Similarity
Change 2; Conserve
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                                                                           Sequence 60, Application US/08428488 Patent No. 5624894
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GENERAL INFORMATION:
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           GENERAL INFORMATION:
APPLICANT: BODOR, NICHOLAS S.
TITLE OF INVENTION: BRAIN-ENH
TITLE OF INVENTION: PEPTIDES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: (703) 836-203
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE/DOCKET NUMBER: 02
TELECOMMUNICATION INFORMATION:
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CURRENT APPLICATION DATA:
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OTHER INFORMATION: /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 4 amino acids
TYPE: amino acid
STRANDEDNESS: single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US/01 FILING DATE: 27-APR-1995
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CITY: Alexandria
STATE: Virginia
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). 5624894
SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     E: Burns, Doane, Swecker & Mathis P.O. Box 1404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BODOR, Nicholas S.

WENTION: BRAIN-ENHANCED DELIVERY OF NEUROACTIVE

WENTION: PEPTIDES BY SEQUENTIAL METABOLISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        United States
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                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                     Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                linear
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                                                                                                                                                                                                                                                       25.0%;
           BRAIN-ENHANCED DELIVERY OF NEUROACTIVE PEPTIDES BY SEQUENTIAL METABOLISM
                                                                                                                                                                                                                                                                                                                                                                                                                   /note=
                                                                                                                                                                                                                                                                                                                                    /note= "Position 4 = ester."
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                                                                                                                                                                                                                                         0;
                                                                                                                                                                                                                                                        Score 2; 1
Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Position 1 = nicotinoy1-Ala."
                                                                                                                                                                                                                                         Mismatches
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b. 1.6e+05;
                                                                                                                                                                                                                                                                                                                                                   Arg (jPmc)-Cholesteryl
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                                                                                                                                                                                                                                         0;
                                                                                                                                                                                                                                                                      Length 4;
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Best Local Similarity
"hes 2; Conserve
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                                                                                                                                                                                                                                                         RESULT 14
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                                                                                                                                                                                          Sequence 61, Application US/08428488
Patent No. 5624894
GENERATION:
GENERATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: (703) 836-202 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk
                                                                                                                                                    TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REGISTRATION NUMBER: 26,254
REFERENCE/DOCKET NUMBER: 02
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 836-6620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: PatentIn Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                                                                                                      CORRESPONDENCE ADDRESS:
                                                                                                                                                                                 APPLICANT:
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                                                                                                                                       NUMBER OF SEQUENCES:
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CTTY: Alexandria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                               COUNTRY: United States ZIP: 22313-1404
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: amino acid
STRANDEDNESS: sin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US/08 FILING DATE: 27-APR-1995
                                                              STATE:
                                                                             CITY:
                                                                                        STREET:
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                                                           Virginia
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                                                                                          E: Burns, Doa
P.O. Box 1404
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                                                                                                                                                                                 BODOR, Nicholas S
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                                                                                                                                                                                                                                                                                                                                                              25.0%; Score 2; DB llarity 100.0%; Pred. No. 1. Conservative 0; Mismatches
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                                                                                                        Doane,
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ester."
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                                                                                                        Swecker & Mathis
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SOFTWARE: PatentIn Rel CURRENT APPLICATION DATA:

COMPUTER: IBM PC OPERATING SYSTEM:

IBM PC compatible SYSTEM: PC-DOS/MS-DOS

Release #1.0, Version #1.25

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RESULT 15
US-08-428-488-62
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Patent No. 5624894
GENERAL INFORMATION:
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Best Local
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TELEPHONE: (703) 836-6620
TELEFAX: (703) 836-2021
INFORMATION FOR SEQ ID NO: 61:
                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: BRATITLE OF INVENTION: PER NUMBER OF SEQUENCES: 11 CORRESPONDENCE ADDRESS:
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ATTORNEY/AGENT INFORMATION:
                NAME: Baumoister, Mary Katherine REGISTRATION NUMBER: 26,254
REFERENCY/DOCKET NUMBER: 028724-087
TELECOMMUNICATION INFORMATION:
                                                                        ATTORNEY/AGENT INFORMATION: NAME: Baumeister, Mary K
                                                                                                                                                            SOFTWARE: Patentin Release #1.0, CURRENT APPLICATION DATA:
                                                                                                                                                                                                                               MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOLECULE TYPE: peptide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: amino acid
STRANDEDNESS: sir
TOPOLOGY: linear
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OTHER INFORMATION:
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                                                                                                                     APPLICATION NUMBER: US/08/428,488 FILING DATE: 27-APR-1995
                                                                                                                                                                                               COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                      CITY: Alexandria
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                                                                                                         CLASSIFICATION:
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TELEPHONE:
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P.O. Box 1404
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linear
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VENTION: BRAIN-ENHANCED DELIVERY OF NEUROACTIVE DESTION: PERTIDES BY SEQUENTIAL METABOLISM
 (703)
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                                                                                                                                                                                                                                                                                                                                                         Doane, Swecker & Mathis
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                                                                                                                                                                              Version #1.25
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RESULT 16
US-08-428-488-71
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Best Local Similarity
Matches 2; Conserve
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 71, Application Patent No. 5624894
GENERAL INFORMATION:
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                                                                                                                                                                  TELEFAX: (703) 836-202:
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 4 amino acids
                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US/08, FILING DATE: 27-APR-1995 CLASSIFICATION: 514 ATTORNEY/AGENT INFORMATION: NAME: Baumeister, Mary Karregistration Number: 26,2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURE:
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                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

COMPUTER: DE-DOS/MS-DOS

COPPUTABE: DE-DOS/MS-DOS

COPPUTABE: DE-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 836-6620
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STRANDEDNESS: si
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                                          OTHER INFORMATION:
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                                                                                                                                                   TYPE: amino acid
             NAME/KEY:
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linear
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linear
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Modified-site
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100.0%;
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; Pred. No.
                                                                                                                                                                                                                                                                    028724-087
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                                            "Position 1 = nicotinoyl-Pro."
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o. 1.6e+05;
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US-08-428-488-72
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US-08-428-488-72
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity
Matches 2; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                       TELEFAX: (703) 836-2021
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                       REFERENCE/DOCKET NUMBER: 02
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 836-6620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/428,488
FILING DATE: 27-APR-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: BODOR, Nicholas S.
TITLE OF INVENTION: BRAIN-ENHANCED DELIVERY OF NEUROACTIVE
TITLE OF INVENTION: PEPPIDES BY SEQUENTIAL METABOLISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                           MOLECULE TYPE: peptide
                                            NAME/KEY:
LOCATION:
             OTHER INFORMATION:
                                                                                             OTHER INFORMATION:
                                                                                                                                                           OTHER INFORMATION: OTHER INFORMATION:
                                                                                                                                                                                                                                                          STRANDEDNESS: single TOPOLOGY: linear
                                                                                                               LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COUNTRY: United
ZIP: 22313-1404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STREET: P.O. Box
CITY: Alexandria
STATE: Virginia
                                                                                                                           NAME/KEY:
                                                                                                                                                                                           LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Baumeister, Mary Katherine REGISTRATION NUMBER: 26,254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION: 514
                                                                                                                                                                                                           NAME/KEY: Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LOCATION:
                                                                                                                                                                                                                                                                                                        ENGTH:
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                                                                                                                                                                                                                                                                                       amino acid
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: United States
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Application US/08428488
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 E: Burns, Doane, Swecker & Mathis P.O. Box 1404
                                                                                                                                                                                                                                                                                                          4 amino acids
                                                                                                                           Modified-site
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                                                            Modified-site
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100.0%; Pr
             /note= "Position 4 =
ester."
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methylsulfate."
                                                                                             /note=
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ester."
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                                                                                             "Position
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Pred. No.
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DB 1; Lo
DB 1; Lo
                           Arg (j-Pmc)-Cholesteryl
                                                                                         Tyr (O-tBu)."
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RESULT 19
US-08-428-488-74
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Best Local Similarity
Thickes 2; Conserve
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US-08-428-488-73
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Best Local Similarity 100
Matches 2; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Patent NO. PATENTION:
GENERAL INFORMATION:
APPLICANT: BODOR, Nicholas S.
APPLICANT: BODOR, Nicholas S.
TITLE OF INVENTION: BRAIN-ENHANCED DELIVERY OF NEUROACTIVE
TITLE OF INVENTION: PEPTIDES BY SEQUENTIAL METABOLISM
                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: (703) 836-2021
INFORMATION FOR SEQ ID NO: 73:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE/DOCKET NUMBER: 02
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 836-6620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/08/428,488
FILING DATE: 27-APR-1995
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Baumeister, Mary Katherine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DCS/MS-DOS
SOFTWARE: PatentIn PC-Bease #1.0, Version #1.25
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Floppy disk
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LOCATION:
                                                                                                                                                                                                                                                                                                                        NAME/KEY: Modified-site LOCATION: 1
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                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: amino acid
STRANDEDNESS: sir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY: United States ZIP: 22313-1404
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                                                                                           5 ay 6
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P.O. Box 1404
                                                                                                                         Conservative
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                                                                                                                      25.0%; Score 2; 1
100.0%; Pred. No.
tive 0; Mismatc
                                                                                                                                                                                                                                                                                        /note= "Position 1 = trigonelly1-Pro
methylsulfate."
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ester."
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100.0%; Pred. No.
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                                                                                                                                      DB 1; Lo
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                                                                                                                                                   Length 4;
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                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                    GENERAL INFORMATION:

APPLICANT: Houghten, Richard A.

TITLE OF INVENTION: No. 5641861e1 Mu Opioid Receptor Ligands:

TITLE OF INVENTION: Agonists and Antagonists

NUMBER OF SEQUENCES: 222

CORRESPONDENCE ADDRESS:

ADDRESSEE: Campbell and Flores

STREET: 4370 La Jolla Village Drive, Suite 700
                                                                                                                                                                                       Sequence 150, Appl
Patent No. 5641861
                                                                                                                                                                                                                                                                                                                                                                                       Best
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEPHONE: (703) 836-66
TELEFAX: (703) 836-2021
TELEFAX: (703) 836-2021
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEPHONE: (703) 836-6620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OTHER INFORMATION:
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OTHER INFORMATION: /note: "Position 1 - 1,4-dihydrotrigonellyl-Pro."
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TYPE: amino acid
STRANGENESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: Baumeister, Marker REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US/0 FILING DATE: 27-APR-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CITY: Alexandria
STATE: Virginia
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nes 2; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: Modified-site
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                  San Diego
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Virginia
: United States
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             E: Burns, Doa
P.O. Box 1404
California
                                                                                                                                                                                                        Application US/08487006
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BODOR, Nicholas S.
VENTION: BRAIN-ENHANCED DELIVERY OF NEUROACTIVE
VENTION: PEPTIDES BY SEQUENTIAL METABOLISM
                                                                                                                                                                                                                                                                                                                                                                    Conservative
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100.0%; Pr
'" 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /note\circ "Position 4 \circ Arg-Cholesteryl ester."
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RESULT 21
US-08-487-006-151
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Best Local Similarity
Watches 3; Conservi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-487-006-150
                                                                                                                                                                                                                                                                                                                Sequence 151, Application US/08487006 Patent No. 5641861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX: (619) 535-8945
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 4 amino acids
                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE/DOCKET NUMBER: P-
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OTHER INFORMATION: FEATURE:
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                                                                                                    COMPUTER READABLE FORM:
                                                                                                                                                                                                        NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                      APPLICANT: Houghten, TITLE OF INVENTION: 1
                                                                                                                                                                                                                                                                      APPLICANT:
                            CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: FILING DATE: 07-JUI CLASSIFICATION: 53
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OTHER INFORMATION:
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                                       MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: PatentIn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDIUM TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                  6 yxg
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OTHER INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY:
                                                                                                                                              CITY: San Diego
STATE: California
                                                                                                                                                                            STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY:
APPLICATION NUMBER: US/0 FILING DATE: 07-JUN-1995
                                                                                                                                  COUNTRY:
                                                                                                                                                                                          ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OCATION:
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                                                                                                                     92122
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4370 La Jolla Village Drive, Suite 700
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                                                                                                                                   USA
                                                                                                                                                                                                                                                                                    Dooley,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
PatentIn Release #1.0, Version #1.25
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N: 530
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                                                                                                                                                                                                                                                                                     Colette T
                                                                                                                                                                                                                                      Agonists and
                                                                                                                                                                                                                                                      No. 5641861el Mu Opioid Receptor Ligands:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25.0%; Score 2;
100.0%; Pred. No.
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the C-terminal."
                                          Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                    Richard A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /note= "Xaa is (D)Nve"
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            US/08/487,006
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1.6e+05
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ATTORNEY/AGENT INFORMATION:

Campbell,

Cathryn A

CLASSIFICATION:

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RESULT 22
US-08-487-006-152
; Sequence 152, Application US/08487006
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Patent No. 564186
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local :
                                           ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE, DOCKET NUMBER: P-TP
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION 10505001
                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Vei
CURRENT APPLICATION DATA:
APPLICATION UMBER: US/08/487,006
FILING DATE: 07-JUN-1995
CLASSIFICATION: 530
AMTORNEY ACCEMT INFORMATION.
              TELEFAX: (619) 535-8949 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX: (619) 535-8949 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: NO. 5641861e1 Mu Opioid Receptor Ligands: TITLE OF INVENTION: Agonists and Antagonists
NUMBER OF SEQUENCES: 222
                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS:
LENGTH: 4 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: p--
TELECOMMUNICATION INFORMATION
TELEPHONE: (619) 535-9001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURE:
                                                                                                                                                                                                                                                                                                        COUNTRY: U
                                                                                                                                                                                                                                                                                                                                        STREET: 4370 La
CITY: San Diego
STATE: Californi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY:
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nes 3; Conserv
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OTHER INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: Peptide LOCATION: 2 OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                         ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: amino acid
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CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                        USA
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100.0%; Pr
0;
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the C-terminal."
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /note= "Xaa is (D)Nle."
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                                                                                  P-TP 1706
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5. 1.6e+05;
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RESULT 23
US-08-487-006-153
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Best Local Similarity
...+ches 3; Conserve
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; OTHER INFORMATION:
; OTHER INFORMATION:
US-08-487-006-152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Patent No. 5641861 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 153, Application US/08487006
                                                                                                                                                                      TELEFAX: (619) 535-8949 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                FEATURE:
                                                                                                                                                                                                                          NAME: Campbell, Cathryn A. REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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TOPOLOGY:
FEATURE:
                                                           FEATURE:
                                                                                                                                                                                                                                                                                                                                          SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Dooley, Co
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
NAME/KEY:
                                                                                                                                                LENGTH:
 OTHER INFORMATION: OTHER INFORMATION:
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                                                                       OTHER INFORMATION:
                                                                                                                               TOPOLOGY:
                                                                                                                                                                                                                   TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STREET: 4370 La
CITY: San Diego
                               LOCATION:
                                           NAME/KEY: Peptide
                                                                                       LOCATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               STATE:
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LOCATION:
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                                                                                                                                                             4 amino acids
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4370 La Jolla Village Drive, Suite 700
                                                                                                                                                                                                                                                                                                                                                                                                                                               USA
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Houghten, Richard A.
TENTION: No. 5641861el Mu Opioid Receptor Ligands:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                               linear
                                                                                                  Peptide
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100.0%;
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/note= "Amino acid is amidated
the C-terminal."
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the C-terminal."
                                                                       /note= "Xaa is (D)Nle
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Query Match
Best Local Similarity 1
Warches 3; Conservat!
                                                                                                                                                                                                                                                                                                                     ; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-256-771-16
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US-08-256-771-16
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                                                                                                US-07-923-260A-11
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                                                                                                                     RESULT 25
Sequence 11, application US/07923260A
Patent No. 5719021
GENERAL INFORMATION:
GENERAL INFORMATION:
HOUSE, MASSAYOTI
TITLE OF INVENTION: PROTEIN ACTIVATION
NUMBER OF SEQUENCES: 13
                                                                                                                                                                                                                                    Query Match 25.0%; Score 2; DB Bost Local Similarity 100.0%; Pred. No. 1. Matches 2; Conservative 0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                          TELEX:
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENCTH: 4 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATTORNEY/AGENT INFORMATION:
NAME: Warren M. Cheek, Jr.
REGISTRATION UMBER: 33,367
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-8850
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25
COMPUTER: IBM Compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Mamoru TOMITA et al.
TITLE OF INVENTION: ANTIMICROBIAL AGENTS AND METHOD FOR TREATING
TITLE OF INVENTION: PRODUCTS THEREWITH
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US/08/256,771
FILING DATE: July 22, 1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STREET: BUCCITY: Washington STATE: D.C.
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Search completed: January 14, 2002, 07:57:31 Job time: 376 sec

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                                               Query Match
Best Local Similarity
""Thes 2; Conserv?
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; TOPOLOGY:
US-07-923-260A-11
                                                                                                                                                                                                                                    TELEPHONE: 215-875-8383
TELEFAX: 215-875-8394
INFORMATION FOR SEQ ID NO: 11:
                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/07/923
FILING DATE: 31-JUL-1992
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Welser, Gerard J.
REGISTRATION NUMBER: 19,763
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ZIP: 19102
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
LENGTH: 4 amino acids
                                                                                                                                                                                                                                                                        REFERENCE/DOCKET NUMBER: 37: TELECOMMUNICATION INFORMATION: TELEPHONE: 215-875-8383
                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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ADDRESSEE: Gerard J. Weiser
STREET: 230 South Fifteenth Street, Suite 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: Philadelphia
STATE: PA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY: UZIP: 19102
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; Pred. No. 1.6e+05;
0; Mismatches 0;
                                                                                                 Length 4;
                                                                   Indels
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Title:
Perfect score:
Sequence:
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Maximum
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neuropeptide Grb-A
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trp operon leader	trp operon leader	trp operon leader	cysteine proteinas	ribosomal protein	glyceraldehyde-3-p	botulinum neurotox	T-cell receptor be	T-cell receptor be	T-cell receptor be	T-cell receptor be	T-cell receptor be	T-cell receptor be	aggrecan - bovine	lipovitellin - Afr	seed protein ws-17	T-cell receptor be	T-cell receptor be	alpha-conotoxin Im	68kDa neurofilamen	T-cell receptor ga

ALIGNMENTS

R; Feeney, A.J.
J. Exp. Med. 174, 115-124, 1991
A:Title: Junctional sequences of fetal T cell receptor beta chains have few N regions A:Reference number: PT0509; MUID:91277601
A:Accession: PT0644
A:Status: translation not shown
A:Molecule type: mRNA
A:Residues: 1-5 <FEED:
A:Experimental source: newborn thymus, strain BALB/c
C:Keywords: T-cell receptor A;Note: ndhF C;Superfamily: NADH dehydrogenase (ubiquinone) chain 5 C;Keywords: chloroplast; membrane-associated complex; NAD; oxidoreductase Ann. Mo. Bot. Gard. 82, 176-193, 199
A;Title: Evidence for the polyphyly
A;Reference number: Z17559
A;Accession: T13492 NADH dehydrogenase (ubiquinone) (EC 1.6.5.3) chain 5 - Nicodemia diversifolia C;Species: chloroplast Nicodemia diversifolia C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 11-Jan-2000 C;Accession: T13492 RESULT 2
PT0644
T-cell receptor beta chain V-D-J region (111-1G) - mouse (fragment)
C:Species: Mus musculus (house mouse)
C:Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30C:Coccession: PT0644 A;Cross-references: C;Genetics: 밁 20 A; Genome: A; Molecule type: DNA A; Residues: 1-698 <OLM> R;Olmstead, R.G.; A;Status: Query Match
Best Local Similarity Matches 664 SFXG 5 sfxg translated from GB/EMBL/DDBJ chloroplast 4; 667 œ Conservative Reeves, P.A. d. 82, 176-193, EMBL:L36405; NID:g703196; PID:g703197; PIDN:AAA84496.1 37.5%; 1995 0; Score 3; | Pred. No. of the Scrophulariaceae based on chloroplast rbcL Mismatches 17-Jul-1992 #text_change 30-May-1997 DB 2; Length 698; 3 1e+03; Indels 0 Gaps 0 chlorop

A; Residues: 1-8

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R-phycoerythrin gamma-E chain - red alga (Ga C; Species: Gastroclonium coulteri C; Species: Gastroclonium coulteri C; Cate: 07-Mar-1988 #sequence_revision 07-Ma C; Accession: A37521; J22565 R; Klotz, A.V.; Glazer, A.N. J. Biol. Chem. 260, 4856-4863, 1985 A; Title: Characterization of the bilin attac A; Reference number: A22565; MUID:85182601
A; Reference number: A22565;
A; Accession: A37521
A; Molecule type: protein
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Blochem. Biophys. Res. Commun. 248, 405-411,
A:Title: Identification of one tachykinin- au
A:Reference number: PD0027; MUID:98342103
A;Accession: PD0029
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C;Species: Achatina fulica (giant African snail)
C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 24-Jul-1997
C;Accession: S33245
R;Minakata, H.; Ikeda, T.; Muneoka, Y.; Kobayashi, M.; Nomoto, K.
FEBS Lett. 323, 104-108, 1993
A;Title: WWamide-1, -2 and -3: novel neuromodulatory peptides isolated from A;Reference number: S33244; MUID:93265912
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C;Date: 21-Aug-1998 #sequence_revision 21-Aug-1998 #text_change 19-May-2000
C;Accession: PD0029
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A; Residues: 1-7
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b; Pred. No. 2.2
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                                               'n
                                           R-phycoerythrin
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reucopyrokinin - Madeira cockroach
C; Species: Leucophaea maderae (Madeira
C; Date: 31-Mar-1988 #sequence_revision
C; Accession: A23967
                                                                    RESULT
A23967
                                                                                                                                                                                                                                                                      A;Molecule type: protein
A;Molecule type: protein
A;Residues: 1-8 <HOL>
C;Comment: Leucokinins, a family of cephalomyotropic peptides, stimulate C;Cymment: Leucokinins, a family of cephalomyotropic peptide; pyroglutamic C;Keywords: amidated carboxyl end; cephalomyotropic peptide; pyroglutamic F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental F;8/Modified site: amidated carboxyl end (Gly) #status experimental
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C;Species: Leucophaea maderae (Madeira cockroach)
C;Date: 07-Sep-1990 #sequence_revision 07-Sep-1990
                                                                                                                                                                                                                                                                                                                                                                            A; Reference number: A; Accession: JS0316
                                                                                                                                                                                                                                                                                                                                                                                         A; Title: Isolation, primary structure, A; Reference number: JS0315
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Comp. Biochem. Physiol. C 88,
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C;Species: Pichia jadinii, Candida utilis
C;Date: 30-Jun-1991 #sequence_revision 30-Sep-1991 #text_change 05-Aug-1994
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FEBS Lett. 269,
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C;Accession: S11078
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59, 194-196,
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8, 27-30, 1987
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26-May-1994 #text_change
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R; Nachman, R.J.; Holman, G.M.; Cook, B.J.

Ricchem. Biophys. Res. Commun. 137, 936-942, 1986

A; Title: Active fragments and analogs of the insect neuropeptide leucopyro
A; Reference number: A23967; MUID:86269041

A; Accession: A23967

A; Molecule type: protein
A; Residues: 1-8 <NAC>
C; Keywords: amidated carboxyl end; neuropeptide; pyroglutamic acid
F; B/Modified site: amidated carboxylic acid (Gin) #status experimental
F; B/Modified site: amidated carboxyl end (Leu) #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R;Duve, H.; Johnsen, A.H.; Scott, A.G.; Yu, C.G.; Yag1, K.J.; Tobe, S.S.; Thorpe, A. Proc. Natl. Acad. Sci. U.S.A. 90, 2456-2460, 1993
A;Title: Callatostatins: neuropeptides from the blowfly Calliphora vomitoria with sequen A; Reference number: A47393; MUID:93211980
A; Accession: D47393
A; Status: preliminary
A; Molecule type: protein
A; Residues: 1-8 CDUV
A; Experimental source: thoracic ganglia
A; Note: sequence extracted from NCBI backbone (NCBIP:128479)
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D47393
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C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Date: 31-Dec-193 #sequence_revision 31-Dec-1993 #text_change 07-May-1999
C;Accession: A42057
R;Werner, S.; Duan, D.S.R.; de Vries, C.; Peters, K.G.; Johnson, D.E.; Williams, L.T.
Mol. Cell. Biol. 12, 82-88, 1992
A;Title: Differential splicing in the extracellular region of fibroblast growth factor A;Reference number: A42057; MUID:92107200
A;Accession: A42057
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C:Species: Calliphora vomitoria
C:Date: 16-Feb-1994 #sequence_revision 18-Nov-1994 #text_change 28-Apr-1995
C:Accession: D47393
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A:Molecule type: DNA
A:Residues: 1-8 - CWER>
A:Cross-references: GB:M80363
C:Keywords: growth factor receptor
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R;Lorenz, M.W.; Kellner, R.; Hoffmann, K.H.
J. Biol. Chem. 270, 21103-21108, 1995
A;Title: A family of neuropeptides that inhibit juvenile hormone biosynthesis
A;Reference number: A57444; MUID:95403341
A;Accession: B57444
A;Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             neuropeptide Grb-AST B3 - two-spotted cricket
C;Species; Gryllus bimaculatus (two-spotted cricket)
C;Apacies: 26-Jan-1996 #sequence_revision 26-Jan-1996 #text_change 26-Jan-1996
C;Accession: C57444
R;Lorenz, M.W.; Kellner, R.; Hoffmann, K.H.
J. Biol. Chem. 270, 21103-21108, 1995
A;Ritle: A family of neuropeptides that inhibit juvenile hormone biosynthesi
A;Reference number: A57444; MUID:95403341
A;Accession: C57444
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                                                                                                                                                                      R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G. J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity A;Reference number: PT0222; MUID:91108337
A;Accession: PT0315
                                                                                             A; Accession A; Accession A; Anolecule type: DNA
A; Residues: 1-9 < YAM>
A; Experimental source: B lymphocyte
A; Experimental source: B lymphocyte
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A;Molecule type: protein
A;Residues: 1-9 <LOR>
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C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993
C;Accession: PT0315
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Ig heavy chain CRD3 region (clone 6-109) - human (fragment)
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Length 9; 0;

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thyroliberin potentiating neuropeptide - bovine
N.Alternate names: thyrotropin-releasing hormone potentiating peptide; TRH-potentiating
C;Species: Bos primigenius taurus (cattle)
C;Pacte: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 13-Mar-1997
C;Accession: JC1367
R;Bulant, M.; Ladram, A.; Montagne, J.J.; Delfour, A.; Nicolas, P.
Biochem. Biophys. Res. Commun. 189, 1110-1118, 1992
A;Title: Isolation and amino acid sequence of the TRH-potentiating peptide from bovine h
A;Reference number: JC1367; MUID:93111999
A;Accession: JC1367
A;Molecule type: protein
A;Residues: 1-10 <BUL>
A;Experimental source: hypothalamus
C;Comment: This neuropeptide corresponds to a region of the rat thyroliberin precursor
C;Superfamily: thyroliberin precursor
C;Superfamily: thyroliberin precursor
C;Reywords: hypothalamus; neuropeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                  C;Accession: JN0024
R;Conlon, J.M.; Katsoulis, S.; Schmidt, W.E.; Thim, L. Regull. Pept. 20, 171-180, 1988
A;Title: [Arg3]substance P and neurokinin A from chick A;Reference number: JN0023; MUID:88204263
A;Accession: JN0024
A;Molecule type: protein
A;Residues: 1-10 <CON>
C;Superfamily: substance P precursor
C;Keywords: amidated carboxyl end; neuropeptide; tachy
F;10/Modified site: amidated carboxyl end (Met) #statu.
sperm-activating peptide (Ser-1, Ala-3, Gly-5 speract) - sea urchin (Hemicentrotus C;Speciles: Hemicentrotus pulcherrinus C;Date: 03-Jun-1993 #sequence_revision 03-Jun-1993 #text_change 18-Aug-2000 C;Accession: D60787 R;Suzuki, N.; Kajiura, H.; Nomura, K.; Garbers, D.L.; Yoshino, K.; Kurita, M.; Tana Comp. Biochem. Physiol. B 89, 687-693, 1988 A;Title: Some more speract derivatives associated with eggs of sea urchins, Pseudoc A;Reference number: A60787; MUID:88242184
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C;Date: 07-Sep-1990 #sequence_revision 07-Sep-1990 #text_change 18-Aug-2000
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                           sea urchins, Pseudocentro
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C:Species: Gadus morhua (Atlantic cod)
C:Species: Gadus morhua (Atlantic cod)
C:Date: 19-Mar-1997 #sequence_revision
C:Accession: S23186
R:Jensen
                                                                                                                                       A;Description: may play a physiological role in the regulation A;Note: neurokinin A is derived by post-translational processing;Superfamily: unassigned animal peptides C;Keywords: neuropeptide; amidated carboxyl end; tachykinin F;10/Modified site: amidated carboxyl end (Met) #status predict
                                                                                                                                                                                                                                                                                     C;Accession. J; Conlon, J.M.
R;Jensen, J.; Conlon, 59-664, 1992
Eur. J. Biochem. 206, 659-664, 1992
A;Title: Substance-P-related and neurokinin-A-related peptides
A;Title: Substance-P-related and neurokinin-A-related peptides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eur. J. Biochem. 206, 659-664, 1992
A;Title: Substance-P-related and neurokinin-A-related A;Reference number: S23186; MUID:92298992
A;Accession: S23307
A;Status: preliminary
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A;Molecule type: protein
A;Molecule type: protein
A;Residues: 1-10 <SUZ>
C;Comment: This oligopeptide from egg jelly is one of several from et shows some, but not absolute, species restriction.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C; Species: Oncorhynchus mykiss (rainbow C; Date: 19-Mar-1997 #sequence_revision ] C; Accession: S23307
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19-Mar-1997
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C; Superfamily: unassigned animal peptides C; Keywords: amidated carboxyl end; neurope F;10/Modified site: amidated carboxyl end
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A;Title: Isolation of four novel tachykinins from frog (Rai A;Reference number: JE0426; MUID:91254337
A;Accession: JE0427
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A;Title: Isolation of four novel tachykinins from frog (Rana A;Reforence number: A61033
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C;Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 18-Aug-2000
C;Accession: B61033; JE0427
                                                                                                                                                                                                                                                                                  A:Molecule type: protein
A:Residues: 1-10 <KO2>
C:Superfamily: unassigned animal peptides
C:Keywords: amidated carboxyl end; neuropeptide
F:10/Modified site: amidated carboxyl end (Met)
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A; Residues: 1-10 < KANS
A; Residues: 1-10 < KANS
R; Kozawa, H.; Hino, J.; Minamino, N.; Kangawa, K.; Matsuo,
Blochem. Biophys. Res. Commun. 177, 588-595, 1991
A; Title: Isolation of four novel tachykinins from frog (Rai A; Reference number: JE0426; MUID:91254337
A; Reference number: JE0426
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A;Title: Isolation of four novel tachykinins from frog (Ra. A; Reference number: A61033
A;Accession: C61033
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neurokinin
C;Species:
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S27178
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Bost Local Similarity
Watches 2; Conserve
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C;Species: Rana catesbelana (bullfrog)
C;Date: 31-Dec-1933 #sequence_revision 31-Dec-1993 #text_change 18-Aug-2000
C;Accession: C61033; JE0428
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llarity 100.0%;
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J. Bacteriol. 159, 905-912, 1984
A;Title: Construction of a promoter-probe vector f
A;Reference number: I40032; MUID:85006754
A;Status:
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S38305
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C;Specles: Bacillus amyloliquefaciens
C;Date: 02-Aug-1996 #sequence_revision 02-Aug-1996 #
C;Accession: I40032
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I40032
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A; Residues: 1-10 <WAN>
C; Superfamily: unassigned animal peptides
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Blochem. J. 287, 827-832, 1992
A;Title: Primary structure and receptor-binding properties of a neurokinin A-related
A;Reference number: S27178; MUID:93075037
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                                                                                                                                                                                                                                                     lectin GNL2 alpha chain - kidney bean (fragment)
C:Species: phaseolus vulgaris (kidney bean)
C:Date: 19-May-1994 #sequence_revision 27-Feb-1997 #text_change 13-Mar-1997
C:Accession: S38305
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A;Molecule type: protein
A;Residues: 1-10 <KAM>
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Biochim. Biophys. Acta 1158, 181-188, 1993
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D. 2e+03;
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FMRFamide-like protein - tobacco hornworm
C;Species: Manduca sexta (tobacco hornworm)
C;Dete: 11-Feb-1993 #sequence_revision 11-Feb-1993 #text_change 17-Mar-1999
C;Accession: A43977
R;Kingan, T.G.; Teplow, D.B.; Phillips, J.M.; Riehm, J.P.; Rao, K.R.; Hildebrand, J.G.;
Peptides 11, 849-856, 1990
A;Title: A new peptide in the FMRFamide family isolated from the CNS of the hawkmoth, Ma
A;Reference number: A43977; MUID:91045350
A;Accession: A43977
A;Molecule type: protein
A;Residues: 1-10 <KIN>
C;Keywords: amidated carboxyl end; neuropeptide; pyroglutamic acid
F;1/Modified site: pyrrolidone carboxyl end (Phe) #status experimental
F;10/Modified site: amidated carboxyl end (Phe) #status experimental
Search completed: January 14, 2002, 07:58:37 Job time: 387 sec
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C;Species: Nicotiana plumbaginifolia (curled-leaved tobacco)
C;Species: Nicotiana plumbaginifolia (curled-leaved tobacco)
C;Date: 19-May-1989 #sequence_revision 19-May-1989 #text_change 18-Jun-1993
C;Accession: D28027
R;Bauw, G.; De Loose, M.; Inze, D.; Van Montagu, M.; Vandekerckhove, J.
Proc. Natl. Acad. Sci. U.S.A. 84, 4806-4810, 1987
A;Title: Alterations in the phenotype of plant cells studied by NH2-terminal amino acid-A;Reference number: A94167
A;Recession: D28027
A;Accession: D28027
A;Recession: D28027
A;Residues: 1-10 <BAU>
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score greater than or equal to the score of the result being printed,
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P35919;
01-JUN-1994
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                                                                                                                  MEDLINE=93265912; PubMed=8495720;
Minakata H., Ikeda T., Muneoka Y., Kobayashi M., Nomoto K.;
Minakata H., Ikeda T., Muneoka Y., Kobayashi M., Nomoto K.;
"WWamide-1, -2 and -3: novel neuromodulatory peptides isolated from
ganglia of the African giant snail, Achatina fulica.";
FEBS Lett. 323:104-108(1993).
-1- FUNCTION: EXHIBITS MODULATORY EFFECTS ON THE PERIPHERAL NERVOUS
SYSTEM. INHIBITS MODULATORY EFFECTS ON THE PERIPHERAL NERVOUS
PIR; S33245; S33245.
                                                                                                                                                                                                                                                                                                                       WWAMIDE-1.
Achatina fulica (Giant African snail).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PATTA-LOPEZ C., Lin R., Aspedon A., Groisman E.A.;

"A Salmonella protein that is required for resistance to antimicrobial peptides and transport of potassium.";

EMBO J. 13:3964-3972(1994).

"I- FUNCTION: CHANNEL THAT OPENS IN RESPONSE TO STRETCH FORCES IN THE MEMBRANE LIPID BILAYER. MAY PARTICIPARTE IN THE REGULATION OF OSMOTIC PRESSURE CHANGES WITHIN THE CELL (BY SIMILARITY).

"I- SUBBUNIT: HOMOPENTAMER (BY SIMILARITY).

"I- SUBCLLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN. INNER MEMBRANE
                                                                            SEQUENCE
                                                                                            Neuropeptide; Amidation.
MOD_RES 7 7
                                                                                                                                                                                                                                       TISSUE=Ganglion;
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InterPro; IPR001185; MSCL.
PROSITE; PS01327; MSCL; PARTIAL.
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    Conservative
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           -!- FUNCTION: MAY ACT AS A NEUROTRANSMITTER OR NEURO-!- SIMILARITY: BELONGS TO THE ALLATOSTATIN FAMILY.
Neuropeptide; Amidation; Multigene family.
MOD_RES 8 AMIDATION (POTENTIAL).
                                                                 "Isolation and identification of multiple neuropeptides of the allatostatin superfamily in the shore crab Carcinus maenas."; Eur. J. Biochem. 250:727-734(1997).
                                                                                                                                                                                                                                                            DL17_CARMA STANDARD; PRT; 8 AA
P81820;
30-MAY-2000 (Rel. 39, Created)
30-MAY-2000 (Rel. 39, Last sequence update)
30-MAY-2000 (Rel. 39, Last annotation update)
                                                                                                                TISSUE=Cerebral ganglion, and Thoracic ganglion; MEDLINE=98121193; PubMed=9461295; Duve H., Johnsen A.H., Maestro J.-L., Scott A.G.,
 SEQUENCE
                                                                                                                                                                                               Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca; Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyu Eubzachyura; Portunoidea; Portunidae; Carcinus.
                                                                                                                                                                                                                                      Carcinus maenas (Common shore crab)
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                                                                                                       Thorpe A.;
                                                                                                                                                                                     NCBI_TaxID=6759;
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CARCINUSTATIN 15.
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Eubrachyura; Portunoidea; Portur
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P82154;
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CYDIASTATIN 3
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P81821;
30-MAY-2000
                                                               Peptides
                                                                            MEDLINE-98054539; PubMed-9392829;
Duve H., Johnsen A.H., Maestro J.-L., Scott A.G., Winst Davey M., East P.D., Thorpe A.;
"Lepidopteran peptides of the allatostatin superfamily. Peptides 18:1301-1309(1997).
                                                                                                                                                                                                                                        Cydia pomonella (Codling moth).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda;
Pterygota; Neoptora; Endopterygota; Lepidoptera; Glos
Tortricoidea; Tortricidae; Olethreutinae; Cydia.
NCBI_TaxID-82600;
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Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyu
Eubrachyura; Portunoidea; Portunidae; Carcinus.
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                     Neuropeptide;
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MOD_RES 8 8 AMIDATION (POTENTIAL)

SEQUENCE 8 AA; 919 MW; C82879D5AB569AB5 CRC64;
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30-MAY-2000
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                                                            SIMILARITY: BELONGS TO THE ALLATOSTATIN FAMILY
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P82155;
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;

Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;

Oestroidea; Calliphoridae; Calliphora.

NCBI_TaxID=27454;
Cydia pomonella (Codling moth).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
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01-NOV-1995 (Rel. 32, Last sequence update)
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CALLATOSTATIN 4 (LEU-CALLATOSTATIN 4).
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P41840;
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              6_LEUMA STANDARD LCKG_LEUMA STANDARD P19988; O1-FEB-1991 (Rel. 17, C O1-FEB-1994 (Rel. 28, L O1-FEB-2000 (Rel. 39, L DECOKININ VI (L-VI).
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Davey M., East P.D., Thorpe
"Lepidopteran peptides of th
Peptides 18:1301-1309(1997).
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Tortricoidea; Tortricidae; Olethreutinae; Cydia.
NCBI_TaxID=82600;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Holman G.M., Cook B.J., Nachman R.J.; "Primary structure and synthesis of two additional neuropeptides from Leucophaea maderae: members of a new family of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=98054539;
Duve H., Johnsen P
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MOD_RES 8 8 8
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FUNCTION: THIS CEPHALOMYCTROPIC PEPTIDE STIMULATES CONTRACTILE ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).
SIMILARITY: TO THE OTHER LEUCOKININS.
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Holman G.M., Cook B.J., Nachman R.J.;
Holman G.M., Cook B.J., Nachman R.J.;
"Isolation, primary structure, and synthesis of leucokinins V and VI:
"Tolation, primary structure, and synthesis of leucokinins V and VI:
myotropic peptides of Leucophaea maderae.";
Comp. Biochem. Physiol. 88c:27-30(1987).
Comp. Biochem. Physiol. 88c:27-30(1987).
-i- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACTILE
ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).
-i- SIMILARITY: TO THE OTHER LEUCOKININS, AND TO MANDUCA SEXTA AND
                                                                                                                                                                                                             Holman G.M., Cook B.J., Nachman R.J.;

"Primary structure and synthesis of a blocked myotropic reprimary structure and synthesis of a blocked myotropic neuropeptide isolated from the cockroach, Leucophaea maderae.";

Comp. Biochem. Physiol. 85C:219-224(1986).

-!- FUNCTION: MEDIATES VISCERAL MUSCLE CONTRACTILE ACTIVITY (MYOTROPIC ACTIVITY).

(MYOTROPIC ACTIVITY).

-!- MISCELLANEOUS: AN ANALOG WITHOUT THE N-TERMINAL PCA RESIDUE WAS SYNTHESIZED AND FOUND TO EXHIBIT GREATER ACTIVITY (1448) THAN THE PARENT NEUROPEPTIDE. THE PORTION OF THE SEQUENCE OF LPK MOST PARENT NEUROPEPTIDE. THE PORTION OF THE SEQUENCE OF LPK MOST
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Neuropeptide; Amidation.
MOD_RES 1 1
MOD_RES 8 8
SEQUENCE 8 AA; 935 MW
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Leucophaea maderae (Madeira cockroach).

Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;

Blaberoidea; Blaberidae; Leucophaea.
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  Neuropeptide;
MOD_RES
                                                      PIR; A23967; A23967.
InterPro; IPR001484; Pyrokinin
PROSITE; PS00539; PYROKININ; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=86269041; PubMed=3015140;
Nachman R.J., Holman G.M., Cook B.J.;
Nachman R.J. Holman G.M., Cook B.J.;
Pactive fragments and analogs of the insect neuropeptide leucopyrokinin: structure-function studies.";
Description Biophys. Res. Commun. 137:936-942(1986).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE-87052651;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FISSUE=Head;
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SIMILARITY: BELONGS TO THE PYROKININ I
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     Amidation; Pyrokinin
1 PYRROI
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100.0%;
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        PYRROLIDONE
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P38495;

01-OCT-1994 (Rel. 30, C

01-OCT-1994 (Rel. 30, L

01-NOV-1995 (Rel. 32, L
                                                                                                                                                                                                                                                                                 AL19_CARMA STANDARI
P81822;
30-MAY-2000 (Rel. 39, C
30-MAY-2000 (Rel. 39, I
30-MAY-2000 (Rel. 39, I
CARCINUSTATIN 19.
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Callinectes sapidus (Blue crab).

Custacea; Malacostraca;

Euwaryota; Mctazoa; Arthropoda; Crustacea; Malacostraca;

Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyu

Eubrachyura; Portunoidea; Portunidae; Callinectes.

NCBI_TaxID=6763;
                                                                                                                                                                              Carcinus maenas (Common shore crab) (Green crab).
Eukaryotu; Metazoa; Arthropoda; Crustacea; Malacostraca;
Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyu
Eubrachyura; Portunoidea; Portunidae; Carcinus.
NCBI_TaxID=6759;
                                                                               TISSUE-Cerebral ganglion, and Thoracic MEDLINE-98121193; PubMcd~9461295; Duve H., Johnsen A.H., Maestro J.-L., S
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-I- FUNCTION: CARDIOACTIVE
-I- SIMILARITY: BELONGS TO
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"The identification
    allatostatin sup
Eur. J. Blochem.
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                                                             Duve H., Johnsen A.H.,
Thorpe A.;
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"Isolation and identification of multiple neuropeptides allatostatin superfamily in the shore crab Carcinus maer Eur. J. Blochem. 250:727-734(1997).
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P18523;
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Manduca sexta (Tobacco hawkmoth) (Tobacco hornworm).

Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda;

Pterygota; Neoptera; Endopterygota; Lepidoptera; Glos

Sphingiodea; Sphingidae; Sphinginae; Manduca.
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MOD_RES 10 10 AMIDATION (POTENTIAL).

SEQUENCE 10 AA; 1101 MW; 96687CD5AB569AB1 CRC64;
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01-FEB-1994 (Rel. 28, Last sequence update)
01-NOV-1995 (Rel. 32, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PIR;
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Peptides 11:849-856(1990).
-i- FUNCTION: INCREASES THE FORCE OF NEURALLY EV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE-91045350; PubMed-2235684;
Kingan T.G., Teplow D.B., Phillips J.M., I
Hildebrand J.G., Homberg U., Kammer A.E.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PYRROLIDONE CARBO
AMIDATION.
D3C45229D5B1F2D2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10
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0. 1.1e+03;
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, Jardine I., Griffin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ą
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..le+03;
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                                                                                                                                                                     ACTIVASE (RUBISCO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CNS
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Best Local Similarity
"~+~hes 2; Conserv
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            Query Match
 Best Local Similarity
                                                                                                                                                                                                                                                                                                    P19851;
P19851;
Ol-FEB-1991 (Rel. 17, Created)
Ol-FEB-1991 (Rel. 17, Last sequence updi
30-MAY-2000 (Rel. 39, Last annotation u
NEUROKININ A (SUBSTANCE K) (NEUROMEDIN
Gallus gallus (Chicken).
                                                                                                                                                       TISSUE-Intestine;

MEDLING-88204263; Pubmed=2452461;

Conlon J.M., Katsoulis S., Schmidt W.E., Thim L.;

(Conlon J.M., Katsoulis S., Schmidt W.E., Thim L.;

"[Arg3]substance P and neurokinin A from chicken small intestine.";

Regul. Pept. 20:171-180(1988).

-i- FUNCTION: TACHYKININS ARE ACTIVE PEPTIDES WHICH EXCITE NEURONS,

EVOKE BEHAVIORAL RESPONSES, ARE POTENT VASODILATORS AND
                                                            PROSITE; PS00267; TACHYKININ;
Tachykinin; Neuropeptide; Amic
MOD_RES 10 10 i
                                                                                                                                                                                                                                                                                                                                                                                                        CHICK
                                            SEQUENCE
                                                                                                             PIR;
                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   [1]
SEQUENCE.
                                                                                               PIR; JN0024; JN0024. Tachykinin. InterPro; IPR002040; Tachykinin.
                                                                                                                                                                                                                                                SEQUENCE.
                                                                                                                                                                                                                                                                      NCBI_TaxID=9031;
                                                                                                                                                                                                                                                                                                                                                                                            TKNB_CHICK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CARBAMATE STRUCTURE (BY SIMILARITY).

-!- SUBCELLULAR LOCATION: CHLOROPLAST STROMA (BY SIMILARITY)

-!- INDUCTION: BY WATER-STRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Costa P., Pionneau C., Bauw G., Dubos C., Bahrn Frigerio J.-M., Plomion C.; "Separation and characterization of needle and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Chloroplast; ATP-binding.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -!- INDUCTION: BY WATER-STRESS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Electrophoresis 20:1098-1108(1999).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=99274088; PubMed=10344291; Costa P., Pionneau C., Bauw G., Du
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "Water-deficit-responsive proteins in maritime pine."; plant Mol. Biol. 38:587-596(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             proteins.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TISSUE=Needle;
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                                                                                                                       SIMILARITY: BELONGS TO THE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FUNCTION: ACTIVATION OF RUBISCO (RIBULOSE-1,5-BISPHOSPHATE CARBOXYLASE/OXYGENASE; EC 4.1.1.39) INVOLVES THE ATP-DEPENDENT CARBOXYLATION OF THE EPSTLON-AMINO GROUP OF LYSINE LEADING TO
                                                                                                                                               SECRETAGOGUES,
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                                                 1134 MW;
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1171 MW;
25.0%;
100.0%;
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100.0%;
                                                                                                                                             CONTRACT (DIRECTLY
                                                                       Amidation
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Pred. No. 1.1
0; Mismatches
Pred.
                                               8A6B4062C9D5BAB1 CRC64;
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                                                            AMIDATION
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                                                                                                                       TACHYKININ
. No. I
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DB 1; Le
. 1.1e+03;
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                                                                                                                       FAMILY
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          Length 10;
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                                                                                                                                               MANY SMOOTE
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                                                                                                                              TKNB_RANCA STANDARD; rai,
p22689;
01-AUG-1991 (Rel. 19, Created)
01-AUG-1991 (Rel. 19, Last sequence update)
01-AUG-1991 (Rel. 39, Last annotation update)
30-MAY-2000 (Rel. 39, Last annotation update)
RANATACHYKININ B (RTK B).
Rana catesbeiana (Bull frog).
Eukaryota; Metazoa; Chordata; Craniata; Verte
                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local
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p1.DEC-1992 (Rel. 24, Created)
01.DEC-1992 (Rel. 24, Last sequence update)
30.MAY-2000 (Rel. 39, Last annotation update)
NEUROKININ A (SUBSTANCE K) (NEUROMEDIN L).
Oncorhynchus mykiss (Rainbow trout) (Salmo gairdneri),
Gadus morhua (Atlantic cod).
                                                                                                                                                                                                                                                                                                                                                                                                     Tachykinin; Neuropeptide; Amidation MOD_RES 10 10 AMIDAT SEQUENCE 10 AA; 1145 MW; 136B40
SEQUENCE
                      Biochem.
                                   brain and
                                            MEDLINE=91254337; PubMed=2043143;
Kozawa H., Hino J., Minamino N., Kangawa K.,
"Isolation of four novel tachykinins from fr
                                                                     MEDLINE=91254337;
                                                                                   TISSUE=Brain;
                                                                                              SEQUENCE, AND
                                                                                                                     NCBI_TaxID=8400;
                                                                                                                                                                                                                                              RANCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "Substance-P-related and neurokinin-A-related peptides of the cod and trout.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Actinopterygii; Neopterygii; Teleostei; Euteleostei
Protacanthopterygii; Salmoniformes; Salmonidae; Onco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ONCMY
                                                                                                                                                                                                                                                                                                                                                                                                                                          PROSITE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE=92298992; PubMed=1376687; Jensen J., Conlon J.M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TISSUE-Brain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCBI_TaxID=8022,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EUR. J. BIOCHEM. 206:659-664(1992).

-!- FUNCTION: TACHYKININS ARE ACTIVE PEPTIDES WHICH EXCITE |
EVOKE BEHAVIORAL RESPONSES, ARE POTENT VASODILATORS AND
SECRETAGOGUES, AND CONTRACT (DIRECTLY OR INDIRECTLY) MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                     InterPro;
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SPECTO; IPRO12040; Tachykinin.
SITE; PS00267; TACHYKININ; 1.
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                     Biophys.
                                   intestine
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                                                                                              SYNTHESIS.
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                      Res. Commun. 177:588-595(1991)
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Pred. No.
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136B4062C9D5B440 CRC64;
                                                                                                                                  Craniata; Vertebrata;
eobatrachia; Ranoidea;
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                                                                                                                                                                                  update)
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                                            frog
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.1e+03;
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                                                          Matsuo H.;
                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                 Length 10;
                                             (Rana
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                                                                                                                                   Ranidae;
                                                                                                                                              Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EXCITE NEURONS,
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                                             catesbeiana)
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PIR; B61033; B61033.
InterPro; IPR002040; Tachykinin.
PROSITE; PS00287; TACHYKINIK; 1.
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Regul. Pept. 46:81-88(1993).
REGUL: PENCTION: TACHYKININS ARE ACTIVE PEPTIDES WHICH EXCITE NEURONS,
-I. EVOKE BEHAVIORAL RESPONSES, ARE POTENT VASODILATORS AND
SECRETAGOGUES, AND CONTRACT (DIRECTLY OR INDIRECTLY) MANY SMOOTH
                                                                                                                                                                                                                                                                                                              PIR;
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Burcher E., Conlon J.M.;
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Amphibia; Batrachia; Anura; Neobatrachia; Ranoidea;
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30-MAY-2000 (Rel.
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P29135;
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                                                                                                                                                                                                                  InterPro; IPR002040; Tachykinin.

PROSITE; PS00267; TACHYKININ; 1.

Tachykinin; Neuropeptide; Amidation; Amphibian skin.

MOD_RES 10 10 AMIDATION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE-93075037; PubMed-1332683;
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in frog (Rana catesbeiana) brain and
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b; Pred. No. 1.1
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917E556B59D5BAB5 CRC64;
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Ranidae; Rana
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TKNC_RANCA
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01-AUG-1991 (Rel. 19, Created)
01-AUG-1991 (Rel. 19, Last sequence update)
30-MAY-2000 (Rel. 39, Last annotation update)
RANATACHYKININ C (RTK C).
Rana catesbelana (Bull frog).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Enkaryota; Metazoa; Chordata; Neobatrachia; Ranoidea;
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PIR; C61033; C61033.

InterPro; IPR002040; Tachykinin.

PROSITE; PS00267; TACHYKININ; 1.

Tachykinin; Neuropeptide; Amidation

MOD_RES 10 AMIDAT.
  STRAIN-FERUSSAC; TISSUE-Heart atrium;

MEDLINE-90211261; PubMed-2322251;

Fujimoto K., Ohta N., Yoshida M., Kubota I., Muneoka Y., Kobayashi
"A novel cardio-excitatory peptide isolated from the atria of the

African giant snail, Achatina fulica.";

Biochem. Biophys. Res. Commun. 167:777-783(1990).

Biochem. Biophys. Res. Commun. 167:777-783(1990).

-I-FUNCTION: POTENTIATES THE BEAT OF THE VENTRICLE, AND HAS ALSO

EXCITATORY ACTIONS ON THE PENIS RETRACTOR MUSCLE, THE BUCCAL

MUSCLE AND THE IDENTIFIED NEURONS CONTROLLING THE BUCCAL MUSCLE
                                                                                                                                                                                                                                                                                                                                                                                  CEPI_ACHFU STANDARD; PRT; P22790; O1-AUG-1991 (Rel. 19, Created) O1-AUG-1991 (Rel. 19, Last sequence up O1-DEC-1992 (Rel. 24, Last annotation CARDIO-EXCITATORY PEPTIDE-1 (ACEP-1).
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Regul. Pept. 46:81-88(1993)
-!- FUNCTION: TACHYKTUTNC AT
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MEDLINE-91254337; PubMed-2043143;
MEDLINE-91254337; PubMed-2043143;
Mozawa H., Hino J., Minamino N., Kangawa K.,
"Isolation of four novel tachykinins from from the company of the comp
                                                                                                                                                                                                                                                                                                                                     Achatina fulica (Giant African snail).
Eukaryota; Metazoa; Mollusca; Gastropoda; Pulmonata;
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          BUCCAL MUSCLE
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Robson N.D., Parrott S., Cooper k.A.,
Robson N.D., Parrott S., Cooper k.A.,
"In vitro formation of a catabolic plasmid
pneumoniae DNA that allows growth of Esche
hydroxybenzoate.";
hydroxybenzoate.";
hidroxybenzoate.";
Airrobiology 142:2115-2120(1996).
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P80580;
01-OCT-1996
01-OCT-1996
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         MEDLINE=94266889; PubMed=8206995;
MCITCOST J.M., YOSTHIKAMI D., Mahe E., Niels
Gray W.R., Olivera B.M.;
TA nicotinic acetylcholine receptor ligand
                                                                                                                              P50983;
01-0CT-1996 (Rel. 34, Created)
01-0CT-1996 (Rel. 34, Last sequence up
20-AUG-2001 (Rel. 40, Last annotation
ALPHA-CONOTOXIN IMI.
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CONIM
                                                                                                 Conus imperialis (Imperial cone).
Eukaryota; Metazoa; Mollusca; Gastropoda; Caenogastropoda;
Neogastropoda; Conoidea; Conidae; Conus.
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01-OCT-1996 (Rel. 34,
01-NOV-1997 (Rel. 35,
MALEYLPYRUVATE ISOMERA
                                                       SEQUENCE, AND TISSUE=Venom;
                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=96349117; PubMed=8760924; Robson N.D., Parrott S., Cooper R.A.; "In vitro formation of a catabolic pl
                                                                                       NCBI_TaxID=35631;
                                                                                                                                                                                           CXA1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Klebsiella pneumoniae.
Bacteria; Proteobacteria;
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el. 35, Last annotation
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richia coli K-12 on
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STRUCTURE BY NMR.
MEDLINE-99324017; PubMed=10395477;
Gehrmann J., Daly N.L., Alewood P.
Gehrmann J., Daly N.L., Alewood P.
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Maslennikov I.V., Shenkarev Z.O., Zhmak M.N., Ivanov V
Methfessel C., Tsetlin V.I., Arseniev A.S.;
"NMR spatial structure of alpha-conotoxin ImI reveals scaffold in snail and snake toxins recognizing neurona acetylcholline receptors.";
FEBS Lett. 444:275-280(1999).
                                                                                                                                                                                                                                                                                                                                Postsynaptic neurotoxin; Venom; 3D-structure.
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PDB; 1IMI; 23-APR-99.
PDB; 1CNL; 27-MAY-99.
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MEDLINE=99212205; PubMed=10194298;
Rogers J.P., Luginbuhl P., Shen G.S., McCabe R.T.,
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MEDLINE=95379776; PubMed=7651351;
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FUNCTION: ALPHA-CONOTOXINS ACT ON POSTSYNAPTIC MEMBRANES, THEY BIND TO THE NICOTINIC ACETYLCHOLINE RECEPTORS (NACHR) AND THUS INHIBIT THEM. IT IS HIGHLY ACTIVE AGAINST THE NEUROMUSCULAR RECEPTOR IN FROC BUT NOT IN MICE. IN CONTRAST, IT INDICES SEIZURES WHEN INJECTED CENTRALLY IN MICE AND RATS. IT TARGET NEURONAL NACERS IN MAMMALS. BLOCKS HOMOMERIC ALPHA-7 NICOTINIC RECEPTORS NACERS IN MEDICAL PROPERSORS APPARENT AFFINITY AND HOMOREIC ALPHA-9 RECEPTORS WITH 8-FOLD LOWER AFFINITY. HAS NO EFFECT ON RECEPTORS COMPOSED OF ALPHA-2/BETA-2, ALPHA-3/BETA-2, ALPHA-4/BETA-2, ALPHA-4/BETA-4, OR ALPHA-3/BETA-4, OR ALPHA-4/BETA-4 SUBUNIT COMBINATIONS.
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POLYPROTEIN (FRAGMENT).
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OS White spot syndrome virus (WSSV).

OC Viruses: Unassigned viruses.

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Q9umz8 homo sapien	Q9g365 calotes emm	Q9g368 draco blanf	Q9g5y9 pseudocalot	Q9g5z2 pseudocalot	Q9g601 bronchocela	alotes	alotes	Q9g631 calotes nig	alotes	alotes c	alotes		Q9g649 otocryptis	Q56972 yersinia pe	Q84140 influenza a	aviar	ipes b	trcl bos ta	Q915w6 liberibacte	۵		squash lea	rattus nor	homo	homo	pseud	_	per	7	per

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Q9TRC6;
Q1-RC6;
Q1-RAY-2000 (TrEMBLrel. 13, Created)
Q1-MAY-2000 (TrEMBLrel. 13, Last sequence update)
Q1-JUN-2000 (TrEMBLrel. 14, Last annotation update)
CYTOCHROME P450 DPB-1 ISOFORM (FRAGMENT).
Q51622 PRELIMINARY;
Q51622;
01-NOV-1996 (TrEMBLrel. 01,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Čhordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis. NCBI_TaxID=9615;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "Isolation and characterization of four cytochrome P450 isozymes from untreated and phenobarbital-treated beagle dogs."; Biol. Pharm. Bull. 17:22-28(1994). SEQUENCE 23 AA; 2638 MW; AF86888FEF8029F8 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Canis familiaris (Dog).
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Shiraga T., Iwasaki K., Nozaki K., Tamura T., Yamazoe Y., Kato R.,
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EMBL;
    BOUND TO THE PROTEIN (BY SIMILARITY).

-!- SUBUNIT: THE MAIN SUBUNITS OF COMPLEX B-C1 ARE: CYTOCHROME
CYTOCHROME C1 AND THE RIESKE PROTEIN (BY SIMILARITY).

-!- SIMILARITY: BELONGS TO THE CYTOCHROME B/B6 FAMILY.
EMBL; AF287539; AAG31529.1; -
                                                          Submitted (JUL-2000) to the EMBL/GenBank/DDBJ databases.

-I- FUNCTION: COMPONENT OF THE UBIQUINOL-CYTOCHROME C REDUCTASE COMPLEX (COMPLEX III OR CYTOCHROME B-C1 COMPLEX), WHICH IS I RESPIRATORY CHAIN THAT GENERATES AN ELECTROCHEMICAL POTENTII COUPLED TO ATP SYNTHESIS (BY SIMILARITY).

-I- COPACTOR: TWO HEME GROUPS (B562 AND B566) WHICH ARE NOT COVI
                                                                                                                                                                                                                                                                                      Q9G8X4;
01-MAR-2001 (TrEMBLrel.
01-MAR-2001 (TrEMBLrel.
01-JUN-2001 (TrEMBLrel.
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SEQUENCE
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MEDLINE=85261261; PubMed=2991225;
Chan P.T., Ohmori H., Tomizawa J., LeBowitz J.;
"Nucleotide sequence and gene organization of Colel DNA.";
J. Biol. Chem. 260:8925-8935(1985).
                                                                                                                                                        Zink R.M., Blackwell-Rago R.C.;
                                                                                                                                                                                 SEQUENCE FROM N.A.
                                                                                                                                                                                                        NCBI_TaxID=99878;
                                                                                                                                                                                                                    Archosauria;
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                                                                                                                                             "Species limits and recent population history
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "Transcription and initiation of ColE1 DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE=91123196; PubMed=1846858; Inoue N., Uchida H.;
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annotation update)
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                                                              NOT COVALENTLY
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      Eukaryota; Euglenozoa; NCBI_TaxID=5664;
               Leishmania major.
Eukaryota; Euglen
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POSSIBLE PRO
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01-OCT-2000
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                                      LM28.157
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Mol. Biol. Evol. 15:1719-1727(1998).
-!- CATALYTIC ACTIVITY: NADH + UBIQUINONE =
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Pfam; PF00361; oxidored_q1; 1.
Mitochondrion; NAD; Oxidoreductas
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Trichostrongyloidea;
NCBI_TaxID=6290;
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01-MAY-2000 (TrEMBLrel. 13, 1
01-JUN-2001 (TrEMBLrel. 17, 1
01-JUN-2001 (TrEMBLrel. 17, 1
NADH DEHYDROGENASE SUBUNIT 4
                                                                                                                                                                                                                                        SEQUENCE
                                                                                                                                                                                                                                                                                                                                                MEDLINE=99083438; PubMed=9866206; Blouin M.S., Yowell C.A., Courtney C., "Substitution bias, rapid saturation,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro; IPR000179; Cyt_b_b6.
Pfam; PF00033; cytochrome_b_N; 1.
PROSITE; PS00192; CYTOCHROME_B_HEME; 1.
Electron transport; Heme; Mitochondrion;
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DBABLE ECF-FAMILY SIGMA FACTOR (FRAGME
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100.0%;
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                Kinetoplastida;
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B
                                                                                                                                                                                                                                                                                                          (COMPLEX I),
                                                                                                                                                                                                                                                                                                                                                of ::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
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                                                                                                                                                                                     Gaps
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RESULT
Q9ZZG6
                                                                                                             밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RT (Rodentia: Sigmodontinae): concordance between mtDNA sequence and RT morphology.";

RL J. Manmal. 79:0-0(1998).

CC -!- FUNCTION: COMPONENT OF THE UBIQUINOL-CYTOCHROME C REDUCTASE CC COMPLEX (COMPLEX III OR CYTOCHROME B-C1 COMPLEX), WHICH IS A RESPIRATORY CHAIN THAT GENERATES AN ELECTROCHEMICAL POTENTIAL CC COUPLED TO ATP SYNTHESIS (BY SIMILARITY).

CC -!- COFACTOR: TWO HEME GROUPS (8562 AND 8566) WHICH ARE NOT COVALENTLY BOUND TO THE PROTEIN (BY SIMILARITY).

CC -!- SUBUNIT: THE MAIN SUBUNITS OF COMPLEX B-C1 ARE: CYTOCHROME B, CC -!- SIMILARITY: BELONGS TO THE CYTOCHROME B, CC CYTOCHROME C1 AND THE RIESKE PROTEIN (BY SIMILARITY).

CC EMBL; U86819; AAD12338.1; -.

DR INTERPO; ITROUO179; CYL_b_b6.

DR Pfam; PF00032: CYTOCHROME_B_HEME; 1.

DR PROSITE; PS00193; CYTOCHROME_B_OO; UNKNOWN_1.

Electron transport; Heme; Mitochondrion; Respiratory chain;
B
                   Ş
                                              Query Match
Best Local S
Matches 4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q9ZZG6;
01-MAY-1999
01-MAY-1999
01-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NON_TER
NON_TER
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Murphy L., Quail M., Harris D., Rajandream M., Ivens A., Submitted (JUL-2000) to the EMBL/GenBank/DDBJ databases. EMBL; AL390935; CAC00895.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A. STRAIN-FRIEDLIN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mitochondrion.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CYTOCHROME B (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Q9ZZG6
                                                                                                                                                                                                                                                                                                                                                                                                                   Steppan S.J
                                                                                                                                                                                                                                                                                                                                                                                                                                  STRAIN-UNM NK27558;
                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Phyllotis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Phyllotis darwini (Darwin's leaf-eared
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCBI_TaxID=56232;
                                                                                                             SEQUENCE
                                                                                                                                                 Fransmembrane.
                                                                                                                                                                                                                                                                                                                                                                                             Phylogenetic relationships and species limits within Phyllotis (Rodentia: Sigmodontinae): concordance between mtDNA sequence a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           154
136 SFXG 139
                                       y Match 37.5%;
Local Similarity 100.0%;
nes 4; Conservative (
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nes 4; Conser
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                      G
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                      sfxg 8
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271 AA;
                                                                                                           290
290 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (TrEMBLrel. 10, (TrEMBLrel. 10, (TrEMBLrel. 17,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                            290
32572
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30356 MW;
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Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      37.5%;
                                                                                                             MW;
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Last sequence update)
Last annotation updat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0;
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                                              Score 3; DB 8
Pred. No. 4e+
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Sigmodontinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        B59E63D2D321EFF4 CRC64;
                                                                                                             BCEAF9D0DBED2771 CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           290 AA
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). 3.8e+03;
                                                           DB 8;
b. 4e+03;
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                                                                      Length 290;
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                                                Indels
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COMPLEX) (COMPLEX), WHICH IS A
COMPLEX (COMPLEX), WHICH IS A
COMPLEX), WHICH IS A
COMPLEX (COMPLEX), WHICH IS A
COMPLED TO ATP SYMTHESIS (BY SIMILARITY).
COMPLED TO ATP SYMTHESIS (BY SIMILARITY).
COMPLED TO ATP SYMTHESIS (BY SIMILARITY).
COMPLED TO ATP SYMTHESIS (BY SIMILARITY).
COMPLEX THE MAIN SUBUNITS (BESA AND B566) WHICH ARE NOT COVALENTLY
COMPLEX BOUND TO THE PROTEIN (BY SIMILARITY).
COMPLEX B-C1 ARE: CYTOCHROME B,
CYTOCHROME C1 AND THE RIESKE PROTEIN (BY SIMILARITY).
COMPLEX B-C1 ARE: CYTOCHROME B,
CYTOCHROME C1 AND THE RIESKE PROTEIN (BY SIMILARITY).
COMPLEX B-C1 ARES CYTOCHROME B,
CHALL, ATO89009; AAF02229.1; -
CHALL, ATO89009; AAF02229.1; -
CRABL, ATO89009; AAF02229.1; -
CRABL, ATO89009; AAF02229.1; -
CRABL, ATO89009; AAF02229.1; -
CRABL, ATO89009; AAF02229.1; -
CRABL, ATO89009; AAF02229.1; -
CRABL, ATO89009; AAF02229.1; -
CRABL, ATO89009; AAF02229.1; -
CRABL, ATO89009; AAF02229.1; -
CRABL, ATO89009; AAF02229.1; -
CRABL, ATO89009; AAF02229.1; -
CRABL, ATO89009; AAF02229.1; -
CRABL, ATO89009; AAF02229.1; -
CRABL, ATO89009; AAF02229.1; -
CRABL, ATO89009; AAF02229.1; -
CRABL, ATO89009; AAF02229.1; -
CRABL, ATO89009; AAF02229.1; -
CRABL, ATO89009; AAF02229.1; -
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CRABL, ATO89009; AAF02229.1; -
CRABL, ATO89009; AAF02229.1; -
CRABL, ATO89009; AAF02229.1; -
CRABL, ATO89009; AAF02229.1; -
CRABL, ATO89009; AAF02229.1; -
CRABL, ATO89009; AAF02229.1; -
CRABL, ATO89009; AAF02229.1; -
CRABL, ATO89009; AAF02229.1; -
CRABL, ATORNOME, AAF0220; A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 4
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Q9TDH9;
Q9TDH9;
O1-MAY-2000 (TrEMBLrel. 1
01-MAY-2000 (TrEMBLrel. 1
01-JUN-2001 (TrEMBLrel. 1
                                                                                                                                                                                                                                                                                O63418
O63418;
O63418;
O1-AUG-1998 (TrEMBLrel. 0
O1-AUG-1998 (TrEMBLrel. 0
O1-JUN-2001 (TrEMBLrel. 1
CYTOCHROME B (FRAGMENT).
                                                                                                                          Archosauria; Metazoa; Chordata; (Archosauria; Aves; Neognathae; Emberizinae; Habia. NCBI_TaxID=62201; [1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Archosauria; Aves; NCBI_TaxID=84775;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Transmembrane.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Electron
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         revealed by cytochrome-b sequence Auk 116:629-639(1999).
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Burns K.J.; molecular systematics of tanagers (Thraupinae): evbiogeography of a diverse radiation of neotropical Mol. Phylogenet. Evol. 8:334-348(1997).
                                                                                                                                                                                                     Mitochondrion.
Eukaryota; Metazoa;
                                                                                                                                                                                                                                             Habia rubica
                                                                                   SEQUENCE FROM N.A. MEDLINE-98086775; PubMed-9417892;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Lanyon S.M.,
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Similarity 100.0%;
4; Conservative (
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PS00193; CYTOCHROME_B_QO; UNKNOWN_1.
transport; Heme; Mitochondrion; Resg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        103
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297
297 AA;
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33128
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Neognathae;
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13,
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Last sequence update)
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0; Mismatches
                                                                                                                                                                                                                                                                                                       Created)
Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0;
                                                                                                                                                                                    Craniata; Vertebrata; Euteleostomi; Passeriformes; Fringillidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Craniata; Vertebrata; Euteleostomi; 
; Passeriformes; Icteridae; Agelaius
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8B62C22B82EE2ED5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 8; Ler
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Respiratory chain;
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                                                 evolution
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Q9TF
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Q9NNI3
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                                                                         RESULT 10
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Best Local S
Matches 4
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BOUND TO THE PROTEIN (BY SIMILARITY).
C -!- SUBUNIT: THE MAIN SUBUNITS OF COMPLEX B-C1 ARE: CYTOCHROME B,
C CYTOCHROME C1 AND THE RIESKE PROTEIN (BY SIMILARITY).
C -!- SIMILARITY: BELONGS TO THE CYTOCHROME B/B6 FAMILY.
R EMBL; AF006233; AAC05054.1; -.
R InterPro; IPR000179; CYt_b_b6.
R InterPro; IPR000100; Galanin.
R Pfam; PF00032; CYTOCHROME_B_C; 1.
Pfam; PF00033; CYTOCHROME_B_C; 1.
R PRINTS; PR00073; GYTOCHROME_B_C0; UNKNOWN_1.
R PROSITE; PS00192; CYTOCHROME_B_D0; UNKNOWN_1.
                                                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                                                         Matches
                       Q9TF74;
Q9TF74;
01-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                    Q9NNI3;
Q9NNI3;
01-OCT-2000
01-OCT-2000
01-OCT-2000
POSSIBLE 75
                                                                                                                                                                                                                 NON_TER
SEQUENCE
 01-MAY-2000
01-JUN-2001
                                                                                                                                                                                                                                                   EMBL;
                                                                                                                                                                                                                                                              Murphy L., Quail M., Submitted (JUL-2000)
                                                                                                                                                                                                                                                                                                                                  Leishmania major.
Eukaryota; Euglen
                                                                                                                                                                                                                                          NON_TER
                                                                                                                                                                                                                                                                                     STRAIN-FRIEDLIN;
                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                      NCBI_TaxID=5664;
                                                                                                                                                                                                                                                                                                                                                           LM15.181
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Transmembrane.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Electron transport; Heme; Mitochondrion; Respiratory chain;
                                                                                                            258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         107 SFXG 110
                                                                                                                                5 sfxg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5 sfxg
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CAPALYTIC ACTIVITY: QH(2) + 2 FERRICYTOCHROME C = Q + 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FERROCYTOCHROME
                                                                                                            SFXG
                                                                                                                                                                                                                                                    AL160371;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                            261
                                                                                                                                  8
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                                                                                                                                                                                                                 353
                                                                                                                                                                                                                                                                                                                                    Euglenozoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               347 AA;
 (TrEMBLrel. 13, (TrEMBLrel. 13, (TrEMBLrel. 17,
                                                                                                                                                                                                                                                                                                                                                                 (TremBLrel. 15, Created)
(TremBLrel. 15, Last sequence update)
(TremBLrel. 15, Last annotation update)
KDA INVARIANT SURFACE GLYCOPROTEIN (FRAGMENT).
                                                                                                                                                         Conservative
                                                 PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                PRELIMINARY;
                                                                                                                                                                                                                                                    2000) to the CAC00227.1;
                                                                                                                                                                                                               353
38247 MW;
                                                                                                                                                   37.5%; 50
100.0%; Pr
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100.0%; F1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              38616 MW;
                                                                                                                                                                                                                                                            Harris D., Rajandream M., Ivens A., to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                               Kinetoplastida; Trypanosomatidae; Leishmania
Last sequence update)
Last annotation update)
                        Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 3; I
                                                                                                                                                                   Score 3; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                               PRT;
                                                                                                                                                                                                                 3E427E2171CC7F24 CRC64;
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                                                                                                                                                         Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                               353 AA
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                                                                                                                                                                   DB 5; Le. 4.7e+03;
                                                                                                                                                                             Length 353;
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RESULT 11
Q9GWR8
ID Q9GWR8
AC Q9GWR8
AC Q9GWR8
DT 01-MAR
DT 01-JUN
DE HMYPOTH
GN LM12.7
OS Leishm
OC Eukary
OX NCBL_T
RN [1]
RN [1]
RN SEQUEN
RC STRAIN
RA MUIPHY
RA Oliver
RL Submit
DR HYPOTH
DR PRINTS
DR PRODOM
KW HYPOTH
KW HYPOTH
FT NON_TE
FT NON_TE
SQ SEQUEN
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Best Local S
Matches 4
                                                        PRINTS;
ProDom;
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01-MAR-2001 (TrEMBLrel.
01-MAR-2001 (TrEMBLrel.
01-JUN-2001 (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                      Q9GWR8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "A molecular phylogeny of ground squirrels and prairie dogs.";
submitted (JUN-1999) to the EMBL/GenBank/DDBJ databases.
-i-FUNCTION: COMPONENT OF THE UBIQUINOL-CYTOCHROME C REDUCTASE
COMPLEX (COMPLEX III OR CYTOCHROME B-C1 COMPLEX), WHICH IS A
RESPIRATORY CHAIN THAT GENERATES AN ELECTROCHEMICAL POTENTIAL
COUPLED TO ATP SYNTHESIS (BY SIMILARITY).
-I-COPACTOR: TWO HEME GROUPS (B562 AND B566) WHICH ARE NOT COVALE
BOUND TO THE PROTEIN (BY SIMILARITY).
-I-SUBUNIT: THE MAIN SUBUNITS OF COMPLEX B-C1 ARE: CYTOCHROME B,
CYTOCHROME C1 AND THE RIESKE PROTEIN (BY SIMILARITY).
               Hypothetical protein.
NON_TER 1
NON_TER 385 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -i- SIMILARITY: BELONGS TO THE CYTOCHROME B/B EMBL; AF157875; AAD50159.1; -.
Interpro; IPR000179; Cyt.b_b6.
Pfam; PF00032; Cytochrome_b_C; 1.
Pfam; PF00033; Cytochrome_b_N; 1.
PROSITE; PS00193; CYTOCHROME_B_QO; UNKNOWN_1.
PROSITE; PS00193; CYTOCHROME_B_QO; UNKNOWN_1.
                                                                                                Submitted (AUG-2000) to the EMBL/GenBank/DDBJ databases EMBL; AL390114; CAC02470.1; -.
                                                                                                                           Murphy L., Quail M., Harris Oliver K.;
                                                                                                                                                      STRAIN-FRIEDLIN;
                                                                                                                                                                   SEQUENCE FROM N.A.
                                                                                                                                                                                                          Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Leishmania
                                                                                                                                                                                                                                        HYPOTHETICAL 43.0 KDA LM12.753.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Transmembrane. SEQUENCE 379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Electron transport;
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    SEQUENCE
                                                                                                                                                                                               NCBI_TaxID=5664;
                                                                                                                                                                                                                          Leishmania major.
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                                                                                   InterPro; IPR001522; Desaturase.
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                                                                                                                                                                                                                                                                                                                                                                                           139 SFXG
                                                                                                                                                                                                                                                                                                                                                                                                                     5 sfxg
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                                                        PD002221; Desaturase;
                                                                       PR00075; FACDDSATRASE
                                                                                                                                                                                                                                                                                                                                                                                           142
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 385
385 P
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  AA;
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                 385
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Rodentia;
  43000
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                                                                                                                                                                                                                                                                 16, Created)16, Last sequence update)17, Last annotation updat
  WW;
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Pred. No. 4.9
0; Mismatches
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Sciurognathi;
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  A79EF6194CFA960A CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Respiratory chain;
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                                                                                                                                                                                                                                                                 update)
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                                                                                                                                         Ivens A.,
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Query Match

37.5%;

Score

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Length 385;

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DT 01-
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Best Local
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THE DIMER (BY SIMILARITY).
-II- PAPIMAY: GLYCOLYSIS.
-II- SUBUNIT: HOMODIMER (BY SIMILARITY).
-II- SUBCELLULAR LOCATION: CYTOPLASMIC (BY EMBL; AF025805; AAB87890.1; -
HSSP; P56252; 1PDZ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Arthropoda; Tracheata; He
Pterygota; Neoptera; Endopterygota; Diptera;
Ephydroidea; Drosophilidae; Drosophila.
NCBI_TaxID~7237;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-JUN-1998 (TrEMBLrel. 06, Created)
01-JUN-1998 (TrEMBLrel. 06, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
ENOLASE (EC 4.2.1.11) (2-PHOSPHOGLYCERATE DEHYDRATASE) (2-PHOSPHO-D-
                                                                                              01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
RIBULOSE BISPHOSPHATE CARBOXYLASE LARGE CHAIN (EC 4
                                                                                                                                                                                          Q9TID6;
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Chloroplast.
Eukaryota; V
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Glycolysis; Lyase; Magnesium
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InterPro; IPR000941; Enolase.
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                                           Pieris floribunda.
                                                                                     LARGE SUBUNIT).
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PF00113; enclase; 1.
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4; Conser
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Metazoa; Arthropoda; Tracheata;
Viridiplantae;
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334
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ilarity 100.0%;
Conservative
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                                                                                                                                                                                                                PRELIMINARY;
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334
413
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₩.
  Streptophyta;
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                                                                                                                                                                                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                                                                                                                                                                                            Score 3;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BY SIMILARITY
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                                                                                                                                                                                                                  PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11414BCC18644A94 CRC64;
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    Embryophyta;
                                                                                                                                                                                                                A
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                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 413;
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    Tracheophyta;
                                                                                                             . 39)
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C: PHOSPHO-D-GLYCERATE.

C: C-I- CATALYTIC ACTIVITY: D-RIBULOSE 1,5-BISPHOSPHATE + O(2) = 3-

PHOSPHO-D-GLYCERATE + 2-PHOSPHOGLYCOLATE.

PHOSPHO-D-GLYCERATE + 2-PHOSPHOGLYCOLATE.

C: PHOSPHO-D-GLYCERATE + 2-PHOSPHOGLYCOLATE.

C: SUBCULTIA BLARGE CHAINS + 8 SMALL CHAINS (BY SIMILARITY).

C: I- SUBCELLULAR LOCATION: CHLOROPLAST (BY SIMILARITY).

C: I- SIMILARITY: BELONGS TO THE RUBISCO LARGE CHAIN FAMILY.

FEMBL; AF124577; AAF16882 1; -..

REMBL; AF124577; AAF16882 1; -..

REMBL; AF124577; AAF16882 1; -..

REMBL; AF124577; RUBISCO_Large.

PROSITE; PE00016, RUBISCO_LARGE; 1.

REMBL; PROSITE; PS00157; RUBISCO_LARGE; 1.

PROSITE; PS00157; RUBISCO_LARGE; 1.

PROSITE; PS00157; RUBISCO_LARGE; 1.

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                                                                                                                                                                                                                                                                                                                                                                                                          Gongora gratulabunda. Chloroplast.
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Kron K.A., Judd
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                                                                                                                 NON_TER
                                                                                                                                                                     SEQUENCE FROM N.A.

Whitten M., Williams N.H., Chase M.W.;

Whitten M., Williams N.H., Chase M.W.;

"Tribal and subtribal relationships of Maxillarieae (Orchidaceae) with

special emphasis on Stanhopeinae; Combined molecular evidence.";

Submitted (FEB-2000) to the EMBL/GenBank/DDBJ databases.

EMBL; AF239478; AAK31875.1; -.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MATURASE (FRAGMENT).
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InterPro; IPR001064; Crystallin.
InterPro; IPR001750; Oxidored_q1.
InterPro; IPR002128; Oxidored_q1_C.
InterPro; IPR001516; Oxidored_q1_N.
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SEQUENCE
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Chloropiast.
Eukaryota; Viridiplantae; Stre
Spermatophyta; Magnoliophyta;
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                                                                                                                                                                                                                                                                                                                stead R.G., Reeves P.A.;
MO. BOT. GAI'd. 82:176-193(1995).
CATALYTIC ACTIVITY: NADH + PLASTOQUINONE = NAD(+) + PLASTOQUINOL.
SIMILARITY: TO NADH-UBIQUINONE/PLASTOQUINONE (COMPLEX I), VARIOUS
                                                                                                                                                                                                                                                                                          CHAINS
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       PF00361;
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100.0%; Pr
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pphyta; Liliopsida; Asparagales; Orchidaceae;
Epidendroideae; Maxillarieae; Stanhopeinae;
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007354;
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01-JUL-1997
01-AUG-1998
                    Submitted (MAY-1996) to t) EMBL; Z73169; CAA97518.2; SGD; S0003988; GIN11. NON_TER 1 1
                                                                                                                                                                                                                                                                                     GIN11 PROTEIN (FRAGMENT).
GIN11 OR YLL065W.
Saccharomyces cerevisiae (Baker's yeast).
                                                                                                                                                  SEQUENCE FROM N.A. Wedler H., Wedler E., Submitted (MAY-1996)
                                                                                                                                                                                                                                                                                                                                               P87225;
01-JUL-1997 (TrEMBLrel. 04,
01-NOV-1999 (TrEMBLrel. 12,
01-JUN-2001 (TrEMBLrel. 17,
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SEQUENCE
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PROSITE; PS00225; CRYSTALLIN_BETAGAMMA; UNKNOWN_1.
Chloroplast; NAD; Oxidoreductase; Plastoquinone.
NON_TER 1
NON_TER 698 698
SEQUENCE 698 AA; 79217 MW; F4B4EBE4E7440A3D CR
                                                                                                                                                                                                                                 NCBI_TaxID=4932;
                                                                                                                                                                                                                                                     Saccharomycetales;
                                                                                                                                                                                                                                                                       Eukaryota; Fungi;
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                                                                                                                  SEQUENCE FROM N.A.
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                                                                                                                                                      Scharfe M., Wambutt R.; the EMBL/GenBank/DDBJ
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01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
PHOSPHODIESTERASE 10A7 (PDE10A7) (FRAGMENT).
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"The human phosphodiesterase PDE10A gene. Genomic or
evolutionary relatedness with other PDEs containing
Eur. J. Blochem. 267:5943-5951(2000).
EMBL; AB041779; BAB16368.1; -.
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Predel R., Kellner R., Rapus J., Penzlin H., Gaede G.;

"Isolation and structural elucidation of eight kinins from the retrocerebral complex of the American cockroach, Periplaneta americana.";

Regul. Pept. 71:199-205(1997).

-!- FUNCTION: MEDIATES VISCERAL MUSCLE CONTRACTILE ACTIVITY
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Homo sapiens (Human).
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Horia; Primates;
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroldea; Dictyoptera; Blattaria;
Blattoldea; Blattidae; Periplaneta.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-MAR-2001 (TrEMBLrel. 16, 01-MAR-2001 (TrEMBLrel. 16, 01-MAR-2001 (TrEMBLrel. 16, 01-MAR-2001 (PEA-K-1).
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TISSUE-CORPORA CARDIACA:
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Bla
Blattoidea; Blattidae; Periplaneta.
                MEDLINE-98010462; PubMed=9350979; Predel R., Kellner R., Rapus J., Penzl "Isolation and structural elucidation retrocerebral complex of the American americana."; Regul. Pept. 71:199-205(1997).
                                                                                                                                                                                                                                     Eukaryota;
Pterygota;
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Bla
Blattoidea; Blattidae; Periplaneta.
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MOD_RES 8 8
    Regul. Pept. '-!- FUNCTION:
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Q1-NOV-1996 (TIEMBLrel. 01, C
Q1-NOV-1996 (TIEMBLrel. 01, L
Q1-NOV-1998 (TIEMBLRel. 08, L
SEQUENCE FROM N.A.

MEDLINE-93167809; PubMed-7679566;

Barta T.M., Kinscherf T.G., Ochytil T.F., Willis D.K.;

"DNA sequence and transcriptional analysis of the tblA
for tabtoxin biosynthesis by Fseudomonas Syringae.";

Appl. Environ. Microbiol. 59:458-466(1993).

EMBL; S54909; AAB25381.2; -.
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NON_TER
SEQUENCE
                                                                                                      Pseudomonas
                                                                                                               Bacteria; Proteobacteria;
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Gene 158.291-294(1995).
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Rattus norvegicus (Rat).
Eukaryota; Metazoa; Chordata;
Mammalla; Eutheria; Rodentia;
NCBI_TaxID=10116;
                                                                                          NCBI_TaxID=317;
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Altus M.S., Wood C.M., Stewart D.A., Roskams A.I., Friedman
Henderson T., Owens G.A., Danner D.B., Jupe E.R., Dell'Orco
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MOD_RES 8 8
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NON_TER
                                                                                                  human gene.";
Proc. Natl. Acad.
                                                                                                               SEQUENCE OF 90-98 FROM N.A.
MEDLINE=88234523; PubMed=3287380;
Kawakami T., Kawakami Y., Aaronson S.A., Robbins K.C.;
Kawakami of transforming properties by FYN, a normal SRC-related
                                                                                                                                                            Mammalia; Eutheria; NCBI_TaxID=9606;
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Eukaryota; Metazoa; Chordata;
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AAW65247
AAY40099
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AAM40785
AAW201195
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AAW24625
                                                                                                                                                                                                                                               SUMMARIES
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7.281 Million cell updates/sec
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                            Staphylococcus aur
Human colon cancer
Human polypeptide
Exol8 partial prot
H. pylori cytoplas
H. pylori cytoplas
                                                                                                                                                                                            Description
                                                                                                                                Hyphozyma sp. stra
Peptide sequence d
                                                                                                                                                              Peptide containing
   Human colon car
Interleukin-13
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AAR95572	AAW11946	745	AAR48522	AAR57101	AAR38115	AAR38113	AAR38132	AAR38130	AAR38135	AAR27863	AAR30206	AAR30202	AAR30195	AAR24950	AAR07103	AAP91630	AAP71288	AAP71285	AAP60801	AAB92005	AAB37940				AAR98547			4	ū	824	612	275	AAG72750	17	AAG72280	379	AAW28289	ω
cFv anti-GA	Dimeric peptide.	Lactoferrin derive	rrin	e P2 o	on-labi	Protease-non-labil	Protease-non-labil	e-non-	se-non-	Antimicrobial pept	3	Des-Tyr(1)-beta-ca	Des-Tyr(1)-beta-ca	Conformationally c	Melanocyte-stimula		te binding	te t	Peptide with neutr	FMRF neuropeptide	Trypsin modulating	Apoptosis inducer	Anti-inflammatory	7	e for	_	Lactoferrin derive	ripeni	Rat brevican core	Amino acid sequenc	Human secreted pro	Human olfactory re	Human olfactory re	Human polypeptide	Human olfactory re	Human prostate can	Amino acid sequenc	ь.

ALIGNMENTS

AAW65247;

AAW65247 standard; peptide;

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RESULT
AAW65247
ID AAW6
XX AAW6
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DT 02-C
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KW Amin
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                                            28-MAY-1998
                                                                                                                                               WO9822125-A1
                                                                                                                                                                                                                                                                                         Modified-site
                                                                                                                                                                                                                                                                                                                                                                                  Modified-site
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Peptide containing 6-peptidylamino-1-naphthylenesulphonamide moiety.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         02-OCT-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                   /note= "Aminonaphthylenesulphonamide moiety"
7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /note=
                                                                                                                                                                                                                                             "Glu(OBz)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "N-terminally modified by t-butoxycarbonyl (BOC)"
                                                                                                                                                                                                                                                                                                                                                                                                                              "Homoarginine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  blood coagulation;
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Best Local
                New phospholipase from Hyphozyma strain and related DNA - hydrolyses both acyl residues in phospholipid, useful for degumming edible oils, and to improve dough quality or filterability of carbohydrate
           slurries
                                                              WPI; 1998-272208/24.
                                                                                                         (NOVO ) NOVO-NORDISK AS
                                                                                                                                                   30-OCT-1997;
                                                                                                                                                                         07-MAY-1998
                                                                                                                                                                                             W09818912-A1
                                                                                                                                                                                                                            Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 substrates for activated protein C (APC), whose substrates are promof the blood coagulation process. The present sequence represents a specifically claimed peptidomimetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to peptidomimetics containing 6-peptidylamino-1-naphthalenesulphonamide moieties. They are peptidomimetics of natural substrates for activated protein C (APC), whose substrates are promoters
                                                                                                                              31-OCT-1996;
                                                                                                                                                                                                                                                            Hyphozyma sp
                                                                                                                                                                                                                                                                                         Hyphozyma sp.
                                                                                                                                                                                                                                                                                                              Hyphozyma sp.
                                                                                                                                                                                                                                                                                                                                     15-SEP-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Peptidyl-amino-1-naphthalene-sulphonamide compounds - are peptidomimetics of natural substrates for activated protein useful as promoters of the blood coagulation process
                                                                                                                                                                                                                                                                                                                                                          AAW62083;
                                                                                                                                                                                                                                                                                                                                                                              AAW62083 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Butenas S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (BUTE/) BUTENAS S. (MANN/) MANN K G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18-NOV-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        س
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                                                                                                                                                                                                                                                                                degumming;
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5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Page 38; 50pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                   6
                                                                                    Hasida M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mann KG;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                        strains CBS 648.91; phospholipase; fatty acyl;
                                                                                                                                                                                                                                                                                                            strain CBS 648.91 phospholipase fragment #8
                                                                                                                                                                                                                                                                             wheat starch hydrolysate;
                                                                                                                             96DK-0001215
                                                                                                                                                  97WO-DK00490
                                                                                                                                                                                                                             Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          96US-0031359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                97WO-US21075
                                                                                                                                                                                                                  /note=
                                                                                                                                                                                                                                                                                                                                                                             peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     37.5%;
                                                                                                                                                                                                               "believed to be a glycosylated Asn residue"
                                                                                  Stringer MA,
                                                                                                                                                                                                                                                                                                                                                                              31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 3; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                    Tsutsumi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 19; Le...
NO. 4.3e+05;
0;
                                                                                                                                                                                                                                                                               breadmaking;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                               dough
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ú
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0;
                                                                                                                                                                                                                                                                                        hydrolyse;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
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RESULT
AAY40039
ID AAY4
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Best Local S
Matches 4
                                                                                                                                                                                         26-FEB-1998;
26-FEB-1998;
26-FEB-1998;
26-FEB-1998;
                                                                                                          Olsen HS,
Duan RD;
        New human genes and the secreted polypeptides they encode, useful diagnosis and treatment of e.g. cancers, neurological disorders, idiseases, inflammation or blood disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                             neurodegenerative disorder; developmental abnormality; blood disorde immune system disease; autoimmune disease; leukemia; inflammation; allergy; Alzheimer's disease; cognitive disorder; schizophrenia; obesity; osteoporosis; arthritis; infection; AIDS; diabetes; asthma;
                                                                                                                                                                                                                                                                                                                                                                                                                connective tissue disorder; transplant rejection; sepsis; acne; psoriasis; cardiovascular disorder; reproductive disorder; food additive; food preservative; storage capability.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present sequence represents a new phospholipase peptide fragment, from strain CBS 648.91 of a Hyphozyma. The phospholipase can hydrolyse both fatty acyl groups in a phospholipid (PL), has an optimum temperature about 50 degrees Celsius (measured for 10 min at pH 3-4) and optimum pH about 3 (measured at 40 degrees Celsius for 10 min). The phospholipase is used to hydrolyse acyl groups in (19so)PL, particularly (19so)lecithin. Specifically it is used: (a) to improve filterability of aqueous solutions or slurries of carbohydrate origin (especially wheat starch hydrolysate) containing PL; (b) in breadmaking (added to the dough) to
                                                                                                                                                                                                                                                                                        24-FEB-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAY40039 standard; Peptide; 40
                                                                                                                                                         (HUMA-) HUMAN GENOME SCI INC
                                                                                                                                                                                                                                                        26-FEB-1998;
                                                                                                                                                                                                                                                                                                                                                    WO9943693-A1
                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Secreted protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Peptide sequence derived from a human secreted protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18-NOV-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAY40039;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           hydrolysate) containing PL; (b) in breadmaking (added to the dough) to improve elasticity; and (c) to reduce PL content (degum) in edible oils. The phospholipase lacks lipase activity and is effective at very low pH, so does not cause enzymatic/alkaline hydrolysis of triglycerides. It is not membrane bound so can be produced and purified on a commercial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim
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                                                                           1999-550857/46
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity 4; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                           Florence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  31 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   37.5%; So illarity 100.0%; F Conservative 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                       98US-0076052.
98US-0076053.
98US-0076054.
98US-0076057.
                                                                                                                                                                                                                                                        98US-0076051.
                                                                                                                                                                                                                                                                                        99WO-US03939.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              gene therapy; cancer; tumor; fetal deficiency;
                                                                                                                         ζ,
                                                                                                                         Brewer LA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 3;; Pred. No.
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                                                                                                                           Ebner
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 19; L
                                                                                                                         ₹,
                                                                                                                           Ruben
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 31;
                                                                                                                         , MS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               blood disorder;
                                                                                                                         Rosen CA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
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1mmune

Disclosure;

Page 39;

246pp; English.

AAY40001-92 are derived from human secreted proteins. The

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAW77559
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT
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Best Local :
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                            Black MT, I
Lonetto MA,
Ward JM;
                                                                                                                                                                                                                                                                                                                                                                                Staphylococcus aureus protein; immune response induction; eye infection; antibody production; T-cell immune response; gastrointestinal infection; respiratory infection; inhibitor; bacterial infection; cardiac infection; central nervous system; kidney infection; urinary tract infection; antimicrobial compound identification; broad spectrum antibiotic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Staphylococcus aureus protein of unknown function.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAW77559 standard; Protein; 42 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
WPI; 1998-252940/23
                                                                                                                                                                                               13-MAY-1998
                                                                                                                                                                                                                             EP841394-A2
                                                                                                                                                                                                                                                                                        Misc-difference
                                                                                                                                                                                                                                                                                                                                    Staphylococcus aureus
                                                                                                                                                                                                                                                                                                                                                                    therapy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30-OCT-1998 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAW77559;
                                                                                                                                      24-SEP-1996;
                                                                                                                                                                 24-SEP-1997;
                                                                                      (SMIK ) SMITHKLINE BEECHAM CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5 sfxg 8
||||
7 sfxg 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6
                                                           Burnham MKR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                            Nicholas
                                                                                                                                    96US-0027032
                                                                                                                                                                  97EP-0307485
                                                                                                                                                                                                                                                                                       Location/Qualifiers
1..42
                                                                                                                                                                                                                                                          /note~ "residues designated X are unspecified, and
represented as Xaa in the specification"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 37.5%; 5c.
100.0%; Pr/
                                              R<sub>O</sub>,
                                                         Hodgson JE,
                                              Pratt JM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 3;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                              Reichard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 20; Le
b. 3.9e+02;
                                            Knowles DJC;
Reichard RW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                              Rosenberg M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
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RESULT
AAG76222
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                function, and is encoded by a DNA sequence of the invention. The DNA sequences were isolated from Staphylococcus aureus WCHU29 (NCIMB 40771). Host cells containing the DNA sequences are used to produce polypeptides or fragments. The proteins are used in the treatment of disease, for inducing an immune response by administering them, to produce antibody and/or T-cell immune response. Antagonists of the proteins are used for the inhibition of bacterial polypeptides. Conditions which may be treated include bacterial infections, especially
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New nucleic acid sequences from Staphylococcus aureus WCHU29 useful in vaccines and for treatment of bacterial infections respiratory tract and central nervous system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            respiratory, cardiac, gastrointestinal, central nervous, eye, kidney, urinary tract, skin, bones and joints. The proteins can also be used to identify antimicrobial compounds which are broad spectrum antiblotics, especially useful in the treatment of H. pylori infection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 11; Page 252; 390pp; English.
          AAH32943 to AAH37195 and AAG73514 to AAG77788 represent human colon cancer-associated nucleic acid molecules (N) and proteins (P), where
                                                                                                                                                                                                                           29-SEP-1999;
03-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  N-PSDB; AAV53359
                                                      Claim 11;
                                                                                 Nucleic acids encoding 4277 human useful for preventing, diagnosing
                                                                                                                                                                                                                                                                      28-SEP-2000; 2000WO-US26524
                                                                                                                                                                                                                                                                                                 05-APR-2001
                                                                                                                                                                                                                                                                                                                             WO200122920-A2
                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                     colorectal carcinoma
                                                                                                                                                                                                                                                                                                                                                                                                    Human; colon cancer; colon
                                                                                                                                                                                                                                                                                                                                                                                                                               Human colon
                                                                                                                                                                                                                                                                                                                                                                                                                                                          03-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAG76222;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAG76222 standard; Protein; 84 AA
                                                                                                                                                                                               (HUMA-) HUMAN GENOME SCI INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     34 sfxg 37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5 sfxg 8
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                                                                                                                                         2001-235357/24.
                                                                                                                                                                   SM,
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                                                                                                                            AAH35627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                      Page 8423-8426; 9803pp; English
                                                                                                                                                                      Barash SC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   42 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                             cancer antigen
                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    represents
                                                                                                                                                                                                                           99US-0157137.
99US-0163280.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         37.5%;
                                                                                                                                                                      Birse CE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    a Staphylococcus aureus protein of unknown
                                                                                                                                                                                                                                                                                                                                                                                                    cancer antigen; diagnosis; detection;
                                                                                                                                                                                                                                                                                                                                                                                                                             protein SEQ ID NO:6986
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 3; DB 19;
Pred. No. 4.1e+02
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                                                                                 colon cancer-associated polypeptides, and/or treating colorectal cancers - \,
                                                                                                                                                                      Rosen
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 42
present (P), whe proteins (P), whe
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collectively known as colon cancer antigens.

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RESULT
AAM40785
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Best Local
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       Novel nucleic acids and
                                                         N-PSDB; AAI59941.
                                                                                                                                Zhao
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           charcer antigens have cytostatic activity and can be used in gene therapy and vaccine production. N and P may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate P expression. For example, N and P may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome that affect the activity of P by expressing in a patient's or to supplement the patients own production of P. Additionally, N may be used to produce the colon cancer-associated Ps, by inserting the nucleic acids into a host cell and culturing the cell to express the proteins. N and P can be used in the prevention, diagnosis and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204 and AAB77789 represent sequences used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; nootropic; immunosuppressant; cytostatic; gene therapy; cance peripheral nervous system; neuropathy; central nervous system; CNS; Alzhelmer's; Parkinson's disease; Huntington's disease; hemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          \dot{N}.B. Pages 666 to 682 and page 7053 of the sequence listing were missing at time of publication, meaning no sequences are present for SEQ ID NO:1027 to 1052, 7921 and 7922.
                                                                                                                                                            Wang
                                                                                                                                                                                                                                   (HYSE-) HYSEQ INC
                                                                                                                                                                                                                                                                                                                                    14-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                           03-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                           25-APR-2000;
09-JUL-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            21-JAN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 26-DEC-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200153312-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       chemokinetic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           22-OCT-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAM40785 standard; Protein; 114 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                present invention.
                                                                                                                                                                                                                                                                                                                                                                                   19-JUL-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  leukaemia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28 sfxg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity
nes 4; Conser
                                                                                                                                                                                                                                                                                                            -OCT-2000;
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                                                                                                                                J,
QA,
                                                                                 2001-442253/47
                                                                                                                             Liu C,
Wang Z,
Zhou P,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   84 AA;
                                                                                                                                                                                                                                                                                2000US-0488725.
2000US-0552317.
2000US-0598042.
2000US-0620312.
2000US-0653450.
2000US-0652191.
2000US-0693036.
2000US-0727344.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2000WO-US34263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       thrombolytic; drug screening; arthritis; inflammation;
                                                                                                                                                     Asundi V, (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID
                                                                                                                                Goodrich
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100.0%; Pr
... 0;
     polypeptides,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NO 5716
                                                                                                                                               Chen R, Ma .
                                                                                                                                ₽,
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Pred. No.
                                                                                                                          nen R, Ma Y,
Ku C, Xue AJ,
Drmanac RT;
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     useful
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                                                                                                                                                     Qian XB,
Yang Y,
for treating disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 84
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                                                                                                                                                                            Ren F,
                                                                                                                                                       Zhang
                                                                                                                                                       J,
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                                                                                                                                                                          Wang
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RESULT
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            in gene therapy. A composition containing a puryperfuse of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system disease, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Immune system suppression, Activin/Inhibin activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, cancer diagnosis and therapy, drug screening, assaws for receptor activity, arthritis and inflammation, leukaemias and
                                                                                                                                                                                                                                                                                                                                                                   Exocytosis pathway protein; Exo protein; antiparkinsonian; antidiabetic; antiallergic; antiasthmatic; nootropic; neuroprotective; anticonvulsant; vulnerary; asthma; inflammation; allergy; Chediak-Higashi syndrome; CHS; Alzheimer's disease; Parkinson's disease; Huntington's disease; diabetes
          Luo Y;
                                                                                 09-FEB-1999;
11-FEB-1999;
                                                                                                                                                       26-JAN-1999;
26-JAN-1999;
                                                                                                                                                                                26-JAN-1999;
26-JAN-1999;
                                                                                                                                                                                                                                                                                                                            Mus
                                                                                                              01-FEB-1999;
                                                                                                                            01-FEB-1999;
                                                                                                                                        01-FEB-1999;
                                                                                                                                                                                                              20-JAN-1999;
                                                                                                                                                                                                                                          20-JAN-2000;
                                                                                                                                                                                                                                                                                                                                                     digestion disorder; wound healing disorder; gene therapy.
                                        (RIGE-)
                                                                    11-FEB-1999;
                                                                                                                                                                                                                                                                     27-JUL-2000
                                                                                                                                                                                                                                                                                                WO200043419-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                         Exol8 partial protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAB21195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAB21195 standard; Protein; 115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            specification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Note: The
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    such as central nervous system injuries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1mmunosuppressant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  78 sfxg
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                munosuppressant and cytostatic activity. The polynucleotides are useful gene therapy. A composition containing a polypeptide or polynucleotide
                                                                                                                                                                                                                                                                                                                            qs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            invention relates to human nucleic acids (AAI57798-AAI61369) and encoded polypeptides (AAM38642-AAM42213) with nootropic,
                                        RIGEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sequence data for this patent did not form part of the printed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                114 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                          2000WO-US01431
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
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                                                                                                           99US-0117309.
99US-0117312.
99US-0118177.
99US-0118178.
99US-0118179.
                                                                                99US-0119286
99US-0119998
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99US-0117308.
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Pred. No.
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o. 7.7e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present sequence is a polypeptide which is associated with the exocytosis pathway. cDNA molecules encoding proteins involved in exocytosis have been isolated by yeast one-hybrid and two-hybrid screening. Novel proteins, termed Exo proteins, have been identified that interact with known exocytosis-associated proteins such as GS27, alpha snap, unci8-1, vamp3, snap-23, and the rab family of proteins. Exo proteins and their agonists and antagonists are useful in the diagnosis, treatment or prevention of exocytosis-mediated disorders such as asthma, inflammation, allergies, Chediak Higashi Syndrome (CHS), Alzheimer's disease, Parkinson's disease, Huntington's disease, diabetes, digestion disorders and wound healing disorders. The nucleic acids, antagonists or agonists of Exo proteins are useful in gene therapy. The nucleic acids are also useful for generating transgenic or knock-out animals which can be used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cytoplasmic; vaccine; prevention; treatment; infection; identification; binding compound; bacterium; life cycle; activator; bacteria; inhibitor duodenal ulcer disease; chronic gastritis; diagnosis; envelope.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; Page 167; 305pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             N-PSDB;
WPI; 1997-052306/05.
N-PSDB; AAT67763.
                                                                                                                                                                                                                                                                                                                                                                     H. pylori cytoplasmic protein 24039587.aa.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
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07-JUN-1995;
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                                                                                                                                      06-JUN-1996;
                                                                                                                                                                                                                                                 Misc-difference
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                                          Berglindh OT, Smith
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95US-0487032
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
Misc-difference 115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Transmembrane; cytoplasmic; cell envelope; flagella; transport; secreted; periplasmic; chronic gastritis; duodenal ulcer disease; activator; inhibitor; bacterial life cycle; vaccine; immunise;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   H. pylori cytoplasmic protein 24039587.aa.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            polypeptide(s) - useful for vaccines
infection, and to detect Helicobacter
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                                                                                                                          WPI; 1997-298052/27
N-PSDB; AAT77443.
                                                                                                                                                                                                                     Smith DH;
                                                                                                                                                                                                                                                                                                                                             17-NOV-1995;
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                             used for diagnostics and therapeutics
                                                             Helicobacter pylori nucleic acid sequences and related proteins
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100.0%; Pred. No. 8.4e+02;
tive 0; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            also useful for generating vaccines for immunising subjects against H. pylori or for use in detecting the presence of Helicobacter species in a sample. Antisense nucleic acid sequences of these sequences are used to inhibit expression of a gene from Helicobacter species. H. pylori whole genomic DNA was isolated and nebulised to a median size of 2000 bp. Purified DNA fragments were blunt-ended and ligated to unique BstXI-linker adapters in 100-1000 fold molar excess. These linkers are complementary. Therefore the linkers will not concatemerise nor will the cut vector re-ligate itself easily. The linker-adapter inserts shotgun subclone libraries. The purified DNA samples were then
Colon cancer associated gene sequences, referred to as colon cancer antigens, useful for the treatment, prevention, and diagnosis of colon
                                                                                                   N-PSDB; AAC98673.
                                                                                                                                 WPI; 2000-587534/55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; colon cancer; colon cancer antigen; diagnosis; detection; identification; cytostatic; cardioactive; neuroprotective; vulnerary; immunomodulatory; muscular; gynaecological; gastrointestinal; nephrotropic; antiinfective; antibacterial; gene therapy; wound;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This sequence is a H. pylori cytoplasmic protein. Helicobacter pylori has been strongly linked to chronic gastritis and duodenal ulcer disease. The nucleic acid sequences of the invention are used to evaluate compounds, especially activators or inhibitors of bacterial life cycle, for the ability to bind an H. pylori nucleic acid sequence. The nucleic acid sequence, and corresponding proteins, are
                                                                                                                                                                                                      Rosen CA,
                                                                                                                                                                                                                                                                                                                                 12-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             neural disorder; immune system disorder; muscular disorder; reproductive disorder; gastrointestinal disorder; renal dis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human colon cancer antigen protein sequence SEQ ID NO:1456
                                                                                                                                                                                                                                                               (HUMA-) HUMAN GENOME SCI INC
                                                                                                                                                                                                                                                                                                                                                                                             08-MAR-2000; 2000WO-US05883
                                                                                                                                                                                                                                                                                                                                                                                                                                                               21-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200055351-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       09-MAR-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAB53916 standard; Protein; 149 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      infectious disease; cardiovascular disorder.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Note: The ORF/protein reference number for this sequence was obtained from the related specification, WO9640893.
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                                                                                                                                                                                                   Ruben SM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Page 129; 1481pp; English.
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Best Local
                                                                                                                                                                                                                                                                                                   /note=
Misc-difference 119
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Misc-difference 111
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Misc-difference 104
                                                   19-MAR-1998.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       autoimmune disease; antibody; immunotherapy
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Interleukin-13 binding protein N-terminal ORF 3.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         can be used in gene therapy. The colon cancer antigen polynucleotides, proteins and antibodies to the proteins are useful for the prevention, treatment and diagnosis of colon disorders, such as colon cancer. The polynucleotides may be used in diagnostics and research, such as for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      neuroprotective, immunomodulatory, gynaecological, gastrointestinal, vulnerary, nephrotropic, antiinfective and antibacterial activities, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAC97991 to AAC98763 encode the human colon cancer associated proteins, called human colon cancer antigens, given in AAB53234 to AAB54006. The human colon cancer antigens can have cytostatic, cardioactive, muscular;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAC97991 to AAC98763 encode the human colon cancer associated
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IL-3 mediated condition; allergy; asthma; diagnosis;
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20
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                                                                                                                                                                                                                                                                                                /note= "Stop codon"
                                                                                                                                                                                         /label= Unknown
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                                                                                                                                                                                                                                                                                                                                                       "Stop codon"
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10-SEP-1997;

97WO-AU00591.

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Best Local S
Matches 4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New isolated interleukin-13 binding protein - used to develop products for therapy e.g. for allergic conditions such as asthmator diagnosis or detection
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10-SEP-1996;
                               Nucleic acids encoding breast, gastric and prostate cancer associated antigen precursors, useful for diagnosing and treating a condition characterized by expression of an abnormal amount of a protein, e.g.
                                                                                                                                                                                                                                                                                          Human; breast cancer; gastric cancer; prostate cancer; diagnosis; cancer associated antigen; cytostatic; cancer vaccine.
                                                                                                                                                                                                                                                                                                                               Human gastric cancer
                                                                                                                                                                                                                                                                                                                                                       26-MAR-2001
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                         characterized cancer -
                                                                                  WPI; 2001-025274/03
                                                                                                          Obata
                                                                                                                                                         28-MAY-1999;
10-SEP-1999;
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                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                 (LUDW-) LUDWIG
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DB; AAV22697.
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96AU-0002262.
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99US-0153454.
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100.0%; Pr
                                                                                                                                                                                                                                                                                                                               associated antigen protein sequence SEQ ID NO:870.
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0; Mismatches
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Example 1; Page 592-593; 799pp; English

The present based on hor

ent sequence represents a homology with an E. coli

Staphylococcus aureus protein, is believed t

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Best Local
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                                                                                                                                                                                                                                                                                                         Black MT,
Pratt JM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Staphylococcal gene; regulatory element; bacterial gene expression; vaccine; Staphylococcal infection; food poisoning; scaled skin syndrome; toxic shock syndrome.
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                                                                          Claim 6; Page 586-587; 989pp; English.
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                                                                                                                                                       Novel polypeptide(s) from Staphylococcus aureus strain WCUH29 - to isolate antimicrobial compounds, and in vaccines against S.
                                                                                                                                                                                                                                 N-PSDB; AAT84187
                                                                                                                                                                                                                                                         WPI; 1997-424969/39
                                                                                                                                                                                                                                                                                                                                                                                                                                        20-FEB-1996;
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                                                                                                                                                                                                                                                                                                                                                                                   (SMIK ) SMITHKLINE BEECHAM CORP.
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                                                                                                                               infection
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4; Conserv
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                                                                                                                                                                                                                                                                                                         Burnham MK,
Reichard RW
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ilarity 100.0%;
Conservative
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                                                                                                                                                                                                                                                                                                         Hodgson JE,
Rosenberg |
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                                                                                                                                                                                                                                                                                                         Knowles DJC,
, Ward JM;
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b. 1e+03;
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                                         AAF22422 to AAF22626, AAF22627 to AAF22773 and AAF22774 to AAF23014 represent nucleotide sequences encoding human breast, gastric and prostate cancer associated antigen precursors (CAAP) respectively.

AAB63232 to AAB63467, AAB63468 to AAB63721 and AAB63722 to AAB63970 represent human breast, gastric and prostate CAAP protein sequence respectively. CAAPs have cytostatic activity and can be used in the production of cancer vaccines. The human CAAP proteins, peptides, nucleic acids or anti-CAAP antibodies are useful for diagnosing and treating a condition characterised by expression of an abnormal amount of a protein,
                                                                                                                                                                                                                                                            Nucleic acids encoding breast, gastric and prostate cancer associated antigen precursors, useful for diagnosing and treating a condition characterized by expression of an abnormal amount of a protein, e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                enoyl-acyl carrier protein. The DNA sequence was isolated from a library of clones of S. aureus WCUH 29 in Escherichia coli. The DNA sequence can be used in the construction of ribozymes and antisense sequences to control the expression of Staphylococcal genes. The DNA sequence is also useful as a source of regulatory elements for the control of bacterial gene expression. The present protein may be used to produce vaccines to enable a host to produce specific antibodies with antibacterial action. These vaccines and antibodies would protect a host against invasion by S. aureus, and conditions relating to Staphylococcal infection, e.g. Staphylococcal food poisoning, scaled skin syndrome, and toxic shock syndrome.
                                                                                                                                                                                                                                                                                                                                   WPI; 2001-025274/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; breast cancer; gastric cancer; prostate cancer; cancer associated antigen; cytostatic; cancer vaccine.
                                                                                                                                                                                                               Example 1; Page 719; 799pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                   (LUDW-) LUDWIG INST CANCER RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                     28-MAY-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human prostate cancer associated antigen protein sequence SEQ ID NO:1153
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99US-0153454.
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100.0%; Pr
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0; Mismatches
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                                        Query Match
Best Local :
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Best Local :
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                                                                                                                          The present sequence is an olfactory receptor which is encoded by one of a number of novel polynucleotides. The polynucleotides can be used in screening for olfactory agonists and antagonists. The methods allow for the determination of primary scents and the identification of the odour receptors used to detect these primary scents. The methods also enable determination of sceondary scents and the identification of combinations of odour receptors that are involved in detecting such secondary scents. This enables the construction of a scent representation (also called a scent fingerprint or scent profile), which may be used to re-create and edit scents. Libraries of olfactory receptors are useful for determining the interaction pattern of a composition with the receptors, and can be used for determining differences in the olfactory
                                                                                                                                                                                                                                                                                                                                                                                                                                                       08-OCT-1999;
24-FEB-2000;
                                                                                          Sequence
                                                                                                                                                                                                                                                                                                Claim 11; Page 1311-1312; 1857pp; English
                                                                                                                                                                                                                                                                                                                           sensation
                                                                                                                    faculties
                                                                                                                                                                                                                                                                                                                       New polynucleotides which encode polypeptides involved sensation for identifying olfactory agonists and antagonists.
                                                                                                                                                                                                                                                                                                                                                                                         Bellenson J,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              06-OCT-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                scent profile;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; olfactory receptor; OR; primary scent determination; secondary scent determination; polypeptide library; odour receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human olfactory receptor polypeptide, SEQ ID NO: 1961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              31-JUL-2001
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                                        Local Similarity
5 sfxg 8
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                                                                                                                    of different
                                                                                           229
                            Conservative
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                                                                                                                                                                                                                                                                                                                                                                                         Smith D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                scent fingerprint;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99US-0158615
                                      37.5%;
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                                                                                                                    individuals.
                                                                                                                                                                                                                                                                                                                                                                                         Lancet D,
                            0,
                                        Score 3;
Pred. No.
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                            Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 scent representation
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                                      DB 22; Lo. 1.2e+03;
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                                                                                                                                                                                                                                                                                                                          and antagonists
                            0;
                                                   Length 229;
                                                                                                                                                                                                                                                                                                                                                                                        Fuchs
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                            Indels
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The invention relates to human nucleic acids (AAI57798-AAI61369) and CC the encoded polypeptides (AAM38642-AAM42213) with nootropic, in munosuppressant and cytostatic activity. The polynucleotides are useful CC in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and CC olalised neuropathies and central nervous system diseases, such as CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the CC utilisation of the activity, chemotactic/chemokinetic activity, haemostatic activin/lnhibin activity, chemotactic/chemokinetic activity, haemostatic casays for receptor activity, arthritis and inflammation, leukaemias and CC unitional control of the activity, arthritis and inflammation, leukaemias and CC unitional control of the printed casays for receptor activity, arthritis and inflammation, leukaemias and CC unitional control of the printed casays for receptor activity, arthritis and inflammation, leukaemias and CC unitional control of the printed casays for receptor data for this patent did not form part of the printed casays for receptor data for this patent did not form part of the printed casays for receptor data for this patent did not form part of the printed casays for receptor data for this patent did not form part of the printed casays for receptor data for this patent did not form part of the printed casays for receptor data for this patent did not form part of the printed casays for receptor data for this patent did not form part of the printed casays for receptor data for this patent did not form part of the printed casays for receptor data for this patent did not form part of the printed casays for receptor data for this patent did not form part of th
                    Query Match
Best Local Similarity
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25-APR-2000;
09-JUL-2000;
19-JUL-2000;
03-AUG-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; nootropic; immunosuppressant; cytostatic; gene therapy; cance peripheral nervous system; CNS; peripheral nervous system; CNS; Alzhelmer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic; chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAM41776 standard; Protein; 297 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Novel nucleic acids and polypeptides, useful for such as central nervous system injuries -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2001-442253/47.
N-PSDB; AAI60932.
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                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example
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19-OCT-2000;
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Wang Z,
Zhou P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 6707; 10078pp; English.
                                                                                                             297
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2000US-0552317.
2000US-0598042.
2000US-0620312.
2000US-06520312.
2000US-0653450.
2000US-0653450.
    Conservative
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Wehrman T, X
Goodrich R,
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100.0%; Pred. No.
tive 0; Mismatch
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Xu C, Xue AJ,
R, Drmanac RT;
    Mismatches
                      DB 22; L
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Yang Y,
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                                          Length 297;
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                                                                                                                        Matches
                                                                                                                                                  Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; olfactory receptor; OR; primary scent determination secondary scent determination; polypeptide library; odour scent profile; scent fingerprint; scent representation; human olfactory receptor data exploratorium; HORDE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New polynucleotides which encode polypeptides involved in olfactory sensation for identifying olfactory agonists and antagonists -
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              08-OCT-1999;
24-FEB-2000;
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256 sfxg
                                                                                                                                                                                                                                                                       Sequence
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167 sfxg
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                                                  5 sfxg
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                                                                                                                                                     Similarity
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                                                                                                                           Conservative
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                                                                                                                                                     Score 3;
Pred. No.
                                                                                                                           Mismatches
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                                                                                                                                                     DB 22;
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                                                                                                                                                                              Length 312;
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Best Local Similarity
Matches 4; Conserv
                                                             , AAY76127 standard; Protein; 354 AA
                                                                                                                                                                                                                                                                                                                                data exploratorium (HRDE). It was used as a query sequence in a database search of olfactory receptor (OR)-like sequences. The invention relates to isolated polynucleotides encoding polypeptides involved in olfactory sensation. The polynucleotides can be used in screening for olfactory agonists and antagonists. The methods allow for the determination of primary scents and the identification of the odour receptors used to detect these primary scents. The methods also enable determination of secondary scents and the identification of combinations of odour receptors that are involved in detecting such secondary scents. This enables the construction of a scent representation (also called a scent fingerprint or scent profile), which may be used to re-create and edit scents. Libraries of olfactory receptors are useful for determining the interaction pattern of a composition with the receptors, and can be used for determining differences in the olfactory faculties of different
 23-MAR-2000
                                  AAY76127;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       08-OCT-1999; 99US-0158615
24-FEB-2000; 2000US-0184809
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; olfactory receptor; OR; primary scent determinat secondary scent determination; polypeptide library; odo scent profile; scent fingerprint; scent representation; human olfactory receptor data exploratorium; HORDE.
                                                                                                                                                                                                                                                                                          Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human olfactory receptor data exploratorium sequence,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                31-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAG72752;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAG72752 standard; Protein; 312
                                                                                                                                              167 sfxg 170
                                                                                                 19
                                                                                                                                                                          5 sfxg 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            present sequence is a polypeptide from the human olfactory receptor evoloratorium (HORDE). It was used as a query sequence in a database
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Page 1653-1654; 1857pp; English
                                                                                                                                                                                                                                                                                         312 AA;
                                                                                                                                                                                                             Conservative
 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
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                                                                                                                                                                                                      37.5%; Score 3; DB
100.0%; Pred. No. 1.
tive 0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Lancet D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               primary scent determination;
polypeptide library; odour receptor;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Glusman G,
                                                                                                                                                                                                                          DB 22; L
5. 1.5e+03;
                                                                                                                                                                                                             ;
                                                                                                                                                                                                                                       Length 312;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Fuchs
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                                                                                                                                                                                                         Gaps
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or by determining the presence of mutations in the new genes. Specific uses are described for each of the 97 genes, based on which tissues they are most highly expressed in, and include developing products for the diagnosis or treatment of cancer, tumours, developmental abnormalities and foetal deficiencies, blood disorders, diseases of the immune system, autoimmune diseases, inflammation, allergies, Alzheimer's and cognitive disorders, schizophrenia, arthritis, asthma, psoriasis, sepsis, skin disorders, atherosclerosis, diabetes, cardiovascular disorders, kidney disorders, digestive/endocrine disorders, infections and AIDS. The polypeptides are also useful for identifying their binding partners.
                                                                                                                                                                                                                                                                                                              AAZ65250 to AAZ65350 represent 97 isolated human secreted protein genes. AAY76124 to AAY76223 represent the secreted proteins encoded by the 97 human genes. The genes and their corresponding secreted polypeptides are useful for preventing, treating or ameliorating medical conditions, e.g. by protein or gene therapy. Also pathological conditions can be diagnosed by determining the amount of the new polypeptides in a sample
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12-MAY-1998
12-MAY-1998
12-MAY-1998
12-MAY-1998
18-MAY-1998
18-MAY-1998
18-MAY-1998
18-MAY-1998
18-MAY-1998
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18-MAY-1998;
18-MAY-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New isolated human genes and the secreted polypeptides they encode, useful for diagnosis and treatment of e.g. cancers, neurological disorders, immune diseases, inflammation or blood disorders -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 11; Page 358-359; 475pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Lafleur
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Olsen HS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     therapy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      autoimmune disease; allergy; Alzheimer's disease; cognitive disorder; schizophrenia; arthritis; asthma; psoriasis; sepsis; skin disorder; atherosclerosis; diabetes; cardiovascular disorder; kidney disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human secreted protein encoded by gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ( HUMA - )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                06-MAY-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  digestive disorder; endocrine disorder; infection; AIDS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; secreted protein; cancer; to foetal deficiency; blood disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2000-062296/05
DB; AAZ65253.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Florence K,
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98US-0085921.
98US-0085922.
98US-0085923.
98US-0085924.
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98US-0085925.
98US-0085927.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ni J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PE, Wei
Ebner R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Rosen CA,
Wei F, Bre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         tumour;
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e system disorder; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Carter KC, Moore PA; wer LA, Soppet DR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     leukaemia;
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Query Match
Best Local Similarity 100.
Conservative

37.5%; Score 3; DB 100.0%; Pred. No. 1.0 cive 0; Mismatches

DB 21; L., No. 1.6e+03; 0;

Length 354; 3; 1; Indels

0;

Gaps

0,

Sequence

proteins

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RESULT 20
AAB48242
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 В
                                                               Query Match
Best Local
                                                    Matches
                                                                                                                                          The invention rolates to an isolated transcription factor gene which is expressed in a recombinant maturing dioct seed and which encodes a transcription factor protein which targets a promoter of a gene encoding seed storage proteins, lectins or oil-body proteins. The transcription factors isolated are Pv-Seed factor-1 (ROM1) and vicilin-box binding protein-1 (ROM2). These factors bind to 75-globulin (b-phaseolin) or lectin (PHA-L) promoters. The transcription factor gene is useful for enhancing or reducing expression of seed storage protein, lectin or oil-protein genes in dicot seed crops. The present sequence represents the amino acid sequence of bZIP2 (basic leucine zipper) ORF2 protein.
                                                                                                                                                                                                                                                                                                                                                                                       WPI; 200
N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Transcription factor; seed storage protein; lectin; oil-body protein; Pv-Seed factor-1; ROM1; Vicilin-box binding protein-1; ROM2; 7S-globulin; phascolin; PHA-L; bean; nuclear protein; promoter; ORF; bZIP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  02-APR-2001
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||||
173 sfxg 176
                                                                                                                                                                                                                                                                                                                               Novel transcription factor gene which encodes transcription factor protein that targets promoters of genes encoding seed storage protain are useful for modulating seed storage protein expression in dicot
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          06-FEB-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Amino acid sequence of bZIP2 ORF2 protein
                                                                                                                                                                                                                                                                                                                                                                                                                               Chern
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Phaseolus vulgaris
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      basic
                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                          Disclosure; Columns 35-38; 67pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                      (UYMA-) UNIV MARYLAND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12-DEC-2000.
 278
                          5 sfxg 8
sfxg
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DB; AAC84565.
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                                                                 Similarity
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 281
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                                                    Conservative
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1..552
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                                                               37.5%;
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                                                               Score 3; ; Pred. No.
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                                                      Mismatches
                                                                 DB 22; L
o. 2.1e+03;
                                                                          Length 552;
                                                      Indels
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RESULT

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/note= "unidentified Misc-difference 162..166
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Misc-difference 115
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Misc-difference 93..109
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                                                                                                                                                                                        /note= "unidentified Misc-difference 413
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Misc-difference 117..120
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Brevican; chrondroitin sulphate proteoglycan; glial cell;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Rat brevican
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                                                                    /note= "
Misc-difference 751..800
                                                                                                 /note= "unidentified Misc-difference 638.641
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                                                                                                                                             Misc-difference 524..530
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WO9526201-A1
                       Misc-difference
                                                    Misc-difference 835.
                                                                                                                  Misc-difference 603
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72
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3 718..720
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                       /note= "1
897..898
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                                      866..867
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AAY05842
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Best Local
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        N-PSDB; AAX25613.
                   WPI; 1999-244425/20
                                      Clendennen S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Brevican was isolated from the proteoglycan soluble fraction of rat brain. The fraction containing the core protein was purified and the sequences of the N-terminus and internal tryptic peptides were detd., giving the sequence shown in AAR85443. Brevican is used to modulate axonal growth and to raise antibodies
                                                                               25-SEP-1997;
                                                                                                   23-SEP-1998;
                                                                                                                        01-APR-1999.
                                                                                                                                            WO9915668-A2
                                                                                                                                                                                              Misc-difference
                                                                                                                                                                                                                           Musa acuminata
                                                                                                                                                                                                                                                      Banana; fruit ripening; glucanase; differential expression;
                                                                                                                                                                                                                                                                            Banana ripening
                                                                                                                                                                                                                                                                                                 02-AUG-1999
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                                                                                                                                                                                                                                                                                                                                         AAY05842 standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim
                                                           (BOYC-) BOYCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (LJOL-) LA JOLLA CANCER RES FOUND
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28-MAR-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   27-MAR-1995;
                                                                                                                                                                                                                                                                                                                                                                                            171 sfxg 174
                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                               5 sfxg 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Page 45-47; 73pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   brevican protein - directs/inhibits axonal growth, used of neuro-fibromatosis and in detection of gliosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          detecting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     908 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                (first entry)
                                                           THOMPSON INST PLANT RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Watanabe K,
                                      May G;
                                                                               97us-0060062
                                                                                                   98WO-US03343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              94US-0219642
                                                                                                                                                                                            Location/Qualifiers
1..2466
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                                                                                                                                                                                                                                                                             fruit ENDO.
                                                                                                                                                                                  /note=
                                                                                                                                                                                                                                              transgenic plant.
                                                                                                                                                                                                                                                                                                                                                                                                                                             37.5%;
100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gliosis
                                                                                                                                                          "the X residues in this sequence correspond
to in-frame stop codons or degenerate
codons in reading frame 1 of ENDO. DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Yamada H,
                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 3; DB 1
s; Pred. No. 2.9
0; Mismatches
                                                                                                                                                                                                                                                                                                                                         2466 AA
                                                                                                                                                                                                                                                                          translated polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 16; L,
o. 2.9e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Yamaguchi Y;
                                                                                                                                                                                                                                                                                                                                                                                                                                   0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 908,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  of gliosis
                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local
                                                                                                                                             Bellamy WR, russ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   thaumatin-like protein, ascurred. The regulatory exempts lectin and senescence-related protein. The regulatory exempts the genes can be used to produce chimeric genes for transformation of plants to provide controlled expression of heterologous DNA during fruit development, or in response to exogenous developmental during the development, or in response to exogenous protein, e.g. signals, such as ethylene signals. The heterologous protein, e.g.
                                                                         Antioxidant peptide lactoferrin decomposition oxidation of lipid(s) in foodstuffs and drugs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present sequence represents the protein encoded by reading frame 1 of a DNA sequence termed ENDO. (see AAX25613) of the invention. Amino acid sequences deduced from reading frames 2 and 3 are given in AAY05843 and AAY05844, respectively. The identity of ENDO. and the coding region of ENDO. DNA are not indicated. The invention provides isolated DNO collecules which are differentially expressed during banana fruit development, and the protein products of these genes. The DNA is selected from a group comprising starch synthase, chitinase, endochitinase, beta-13 eglucanase, beta-1110.
                        Claim 3; Page 32; 47pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                            Decomposition; lactoferrin; digestion; enzyme; pepsin; trypsin; antioxidant; oxidation; inhibitor; vitamin E; ascorbic acid; vitamin A; beta-carotene; superoxidase dismutase; coenzyme Q; lipid oxidation; foodstuff; drugs; health food; toiletries; cosmetics.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1912 sfxg 1915
                                                             their taste
                                                                                                                           WPI; 1994-065650/08
                                                                                                                                                                                                     (MORG ) MORINAGA MILK IND CO LTD.
                                                                                                                                                                                                                                       07-AUG-1992;
                                                                                                                                                                                                                                                                     04-AUG-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAR48523;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAR48523 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 signals, such as ethylene signals. The a therapeutic protein, can be isolated directly in the transformed fruit.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 14; Fig 16A-J; 143pp; English.
                                                                                                                                                                                                                                                                                                                                                                Bos taurus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Lactoferrin derived peptide #17.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New isolated banana DNA molecules
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nes 4; Conserv
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                                                                                                                                                                                                                                                                     93WO-JP01090
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Tomita M, Wakabayashi H, Yam
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without affecting
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The sequences given in AAR48507-37 are peptides derived by the

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RESULT
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RESULT 25
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Best Local :
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Best Local Similarity
Matches 2; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present peptide is a bovine lactoferrin derived, angina pectoris treatative agent. It has low toxicity and side effects, is heat resistant, water soluble and stable in an ag. soln.. It also requires no preservative.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bovine lactoferrin; angina pectoris; treatment; low toxicity; no side offects; heat resistance; water solubility; stability; aqueous solution; preservative free.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1995-400916/51.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-APR-1994;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   13-JUN-1996 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            in foodstuffs, drugs, health foods, toiletries and cosmetics.
                            AAR98547 standard; Peptide; 3 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 1; Page 10; 12pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Peptide for treatment of angina pectoris - has low toxicity and heat resistant and water soluble
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-APR-1994;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bos taurus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              y Match 25.0%; Score 2; DB 15; L
Local Similarity 100.0%; Pred. No. 4.3e+05;
hes 2; Conservative 0; Mismatches 0;
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D. 4.3e+05;
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Search completed: January 14, 2002, 07:56:32 Job time: 727 sec

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Matches 2
                                                                                                              AAR98531-54 are peptides used in an anti-ulcer agent. The in toxicity, is heat-resistant and stable in aqueous soln.. administered orally and be produced in large amounts.
                                                                                                                                                                                                                                                     17-NOV-1994;
                                                                                                                                                                                                                                                                          17-NOV-1994;
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                                                                                                                                                                                                                                                                                                                  JP08143468-A
                                                                                                                                                                                                                                                                                                                                     Synthetic.
                                                                                                                                                                                                                                                                                                                                                         anti-ulcer agent; low toxicity; stable; heat-resistant.
                                                                                                                                                                                                                                                                                                                                                                              Peptide for anti-ulcer agent.
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                                                                                           Sequence
                                                                                                                                                        Claim 1; Page 9; 11pp; Japanese.
                                                                                                                                                                           Anti-ulcer agent contg. peptide - has low toxicity, heat-resistant and water-soluble
                                                                                                                                                                                                           WPI; 1996-318857/32.
                                                                                                                                                                                                                               (MORG ) MORINAGA MILK IND CO LTD
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                                       Local Similarity les 2; Conserv
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                                        25.0%; Score 2; DB ilarity 100.0%; Pred. No. 4. Conservative 0; Mismatches
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2: /cgn2_6/ptodata/2,

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467	-195	350	637	477	477	592	-477	-477	1-441	1-441	381	485	48	475	3-475	222	7-789	789	256	3-461	215	190
-08-467-580-82	-049-4	-26C	-759	-134	-134	-646	-362	-362	-871	1-871	-381-984	-886	-886	5-263-	-263	-851	-184	-184	-771	-611	-08-215-137	-802
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ALIGNMENTS

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RESULT 1
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; Patent No. 583
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Ve
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/764,157
FILING DATE:
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 7 amino acids
TYPE: amino acid
                                                                                                             FILING DATE:
ATTORNEY/AGENT INFORMATION:
ANAME: Nesbitt, Stephen L
REGISTRATION NUMBER: 28981
REFERENCE/DOCKET NUMBER: MO13
TELECOMMUNICATION INFORMATION:
TELEPHONE: (513) 948-7965
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CITY: Cincinnati P. (
STATE: Ohio
COUNTRY: USA
ZIP: 45215-6300
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: NUMBER OF SEQUENCES:
TOPOLOGY: 1: MOLECULE TYPE:
                                                                                                   TELEFAX:
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2110 East Galbraith Rd.
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Hassman III, Chester F
McCarthy, James Ray
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; NUMBER OF SEQ ID NOS:
; SOFTWARE: FastSEQ for
; SEQ ID NO 8
; LENGTH: 31
; TYPE: PRT
                                                                                                                                                                                   Sequence 28, Application US/08796899 Patent No. 6160202
Patent NO. ....
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: BUSTOS, Mauricio M
APPLICANT: CHERN, Maw-Shenq
APPLICANT: CHERN, Maw-Shenq
APPLICANT: MODIFICATION OF SEED CROPS WITH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local
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APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: An Acidic Phospholipase, TITLE OF INVENTION: Methods of Using Thereof FILE REFERENCE: 4953.204-US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Hyphozyma sp. CBS 648.91 FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: Modified-
LOCATION: 4
OTHER INFORMATION:
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FEATURE:
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LOCATION:
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Tsutsumi, No. 6127137iko
Halkier, Torben
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100.0%; Pr
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(Leu-NH2)"
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having a 1-methylene group, in place of a
1-carbonyl group, bonded to the alpha nitrogen"
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amino acid"
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PCT-US95-03747-3
Sequence 3. Application PC/TUS9503747
GENERAL INFORMATION:
APPLICANT: LA JOLLA CANCER RESEARCH FOUNDATION
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Best Local Similarity
Thes 4; Conserv
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SOFTWARE: PATENTIN Release #1.0, Ve
CURRENT APPLICATION DATA:
APPLICATION UNMBER: US/08/796,899
FILING DATE: 06-FEB-1997
CLASSIFICATION DATA:
APPLICATION NUMBER: US 08/319,544
APPLICATION NUMBER: US 08/319,544
APPLICATION NUMBER: US 08/319,544
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APPLICATION NUMBER: 36,607
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                                                                          SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/03747
FILING DATE: 27-MAR-1995
ATTORNEY/AGENT INFORMATION: NAME: Imbra, Richard J. REGISTRATION NUMBER: 37,
                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
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TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES:
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                                                                                                                                                    COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                  STREET: 4370 La
CITY: San Diego
STATE: Californi
                                                        CLASSIFICATION:
                                                                                                                                                                                                                                 COUNTRY: UZIP: 92122
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CITY: Alexandria
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SYSTEM: PC-DOS/MS-DOS
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70 La Jolla Village Drive,
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O. Box 1404
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; LENGTH: 2
; TYPE: PRT
; ORGANISM: HIV
US-08-889-841B-3
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Best Local Similarity
Thes 2; Conserve
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US-08-889-841B-3
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                                                                       ; TYPE: PRT
; ORGANISM: HIV
US-08-889-8418-6
                                                                                                                                                                                                                                                                                                              US-08-889-841B-6
                                                                                                                                           Sequence 6, Application US/08889841B
GENERAL INFORMATION:
APPLICANT: Berman, Phillip W.
APPLICANT: BERMAN, PHILLIP W.
TITLE OF INVENTION: HIV ENVELOPE POLYPEPTIDES AND VACCINE FILE REFERENCE: 149,18-703CIP
CURRENT APPLICATION NUMBER: US/08/889,841B
CURRENT FILING DATE: 1997-07-08
PRIOR FILING DATE: 1997-07-08
NUMBER OF SEQ ID NOS: 57
SOFTWARE: FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 3, Application US/08889841B GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: HIV ENVELOPE POLYPEPTIDES AND VACCINE FILE REFERENCE: 14918-703CIP CURRENT APPLICATION NUMBER: US/08/889,841B CURRENT FILING DATE: 1997-07-08 PRIOR APPLICATION NUMBER: US 60/676,737 PRIOR FILING DATE: 1996-07-08 NUMBER OF SEQ ID NOS: 57
SOFTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 3
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Best Local Similarity
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Query Match 25.0%; Score 2; DB 3; Leg Best Local Similarity 100.0%; Pred. No. 1.6e+05; Matches 2; Conservative 0; Mismatches 0;
                                                                                                                                 SEQ ID NO 6
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                                                                                                                     LENGTH:
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100.0%; Pred. No.
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; TYPE: PRT
; ORGANISM: HIV
US-08-889-841B-13
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; ORGANISM: HIV
US-08-889-841B-17
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                                                                                                                       RESULT
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LENGTH: 2
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US-08-889-841B-20
Sequence 20, Application US/088B9841B
GENERAL INFORMATION:
APPLICANT: Berman, Phillip W.
TITLE OF INVENTION: HIV ENVELOPE POLYPEPTIDES AND VACCINE
FILE REFERENCE: 14918-703CIP
CURRENT APPLICATION NUMBER: US/08/889,841B
CURRENT FILING DATE: 1997-07-08
                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
"hehes 2; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 17, Application US/08889841B
GENERAL INFORMATION:
APPLICANT: Berman, Phillip W.
TITLE OF INVENTION: HIV ENVELOPE POLYPEPTIDES AND VACCINE
FILE REFERENCE: 14918-703CIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
APPLICANT: Berman, Phillip W.
TITLE OF INVENTION: HIV ENVELOPE POLYPEPTIDES AND VACCINE
FILE REFERENCE: 14918-703CIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: FastSEQ for Windows Version 3.0 SEQ ID NO 13
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Best Local Similarity
Matches 2; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: US 60/676,737
PRIOR FILING DATE: 1996-07-08
NUMBER OF SEQ ID NOS: 57
SOFTWARE: FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/08/889,841B
CURRENT FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: US 60/676,737
PRIOR FILING DATE: 1996-07-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/08/889,841B CURRENT FILING DATE: 1997-07-08
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Query Match
Best Local Similarity
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Best Local Similarity
"htches 2; Conserva
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                                                                                                                                                                                                                                                          Sequence 37, Application US/08889841B
GEWERAL INFORMATION:
APPLICANT: Berman, Phillip W.
TITLE OF INVENTION: HIV ENVELOPE POLYPEPTIDES AND VACCINE
FILE REFERENCE: 14918-703CIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: FastSEQ for Windows Version 3.0 SEQ ID NO 34 LENGTH: 2
                                                                                                                                                     NUMBER OF SEQ ID NOS: 57
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 34, Application US/08889841B
GENERAL INFORMATION:
APPLICANT: Berman, Phillip W.
TITLE OF INVENTION: HIV ENVELOPE POLYPEPTIDES AND VACCINE
FILE REFERENCE: 14918-703CIP
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SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                              CURRENT APPLICATION NUMBER: US/08/889,841B
CURRENT FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: US 60/676,737
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION NUMBER: US/08/889,841B CURRENT FILING DATE: 1997-07-08 PRIOR APPLICATION NUMBER: US 60/676,737 PRIOR ETLING DATE: 1996-07-08 NUMBER OF SEQ ID NOS: 57
                                                                                                                                                                                                PRIOR FILING DATE: 1996-07-08
                                                                                                                       TYPE: PRT
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                                                                                                           ORGANISM: HIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
                                                                                                                                     LENGTH: 2
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                             25.0%;
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               0;
                             Score 2; I
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; Pred. No. 1.6e+05;
0; Mismatches 0;
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o. 1.6e+05;
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RESULT 13
US-08-165-545-8
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US-08-889-841B-40
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                 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Berman, Phillip W.
TITLE OF INVENTION: HIV ENVELOPE POLYPEPTIDES AND VACCINE
FILE REFERENCE: 14918-703CIP
CURRENT APPLICATION NUMBER: US/08/889,841B
CURRENT FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: US 60/676,737
PRIOR FILING DATE: 1996-07-08
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TYPE: PRT
                                                                     REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-8850
                                                                                                                                                                                                   CLASSIFICATION: 530 PRIOR APPLICATION NUMBER: 1
SEQUENCE CHARACTERISTICS
                                                                                                                         FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Warren M. Cheek, Jr.
REGISTRATION NUMBER: 33,367
                                                                                                                                                                                                                                                                                                SOFTWARE: DisplayWrite CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                               STREET: BULL CITY: Washington STATE: D.C.
                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Mamoru TOMITA et al.
TITLE OF INVENTION: Antimicrobial Peptide and
TITLE OF INVENTION: Antimicrobial Agent
NUMBER OF SEQUENCES: 13
                                                      TELEFAX:
                                                                                                                                                                                                                                                                                                                                 MEDIUM TYPE: Diskette, 5.25 inch, 500 kb COMPUTER: IBM Compatible OPERATING SYSTEM: MS-DOS
                                                                                                                                                                                                                                                                                                                 SOFTWARE:
                                                                                                                                                                                                                                                               FILING DATE:
                                                                                                                                                                                                                                                                              APPLICATION NUMBER:
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805 Fifteenth Street, N.W., #700
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100.0%; Pred. No.
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MOLECULE TYPE: HYPOTHETICAL:

TOPOLOGY:

linear

TYPE: amino acid STRANDEDNESS: single

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US-08-305-768-27
Sequence 27, Application US/08305768; Patent No. 5602097
GENERAL INFORMATION:
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; FILING DATE:
; PUBLICATION DATE:
; RELEVANT RESIDUES IN SEQ ID
US-08-165-545-8
                                                                                                                                                                                                                                                                                            RESULT 14
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Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                        Matches
MEDIUM TYPE: FLOPPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/305,768
FILING DATE: 12-SEPT-1994
CLASSIFICATION: 514
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
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ORIGINAL SOURCE:
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IMMEDIATE SOURCE:
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                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy of
COMPUTER: IBM PC com
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PUBLICATION INFORMATION:
                                                                                                                                                                              TITLE OF INVENTION: Antifungal Peptides NUMBER OF SEQUENCES: 31
                                                                                                                                                                                                               APPLICANT:
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CELL TYPE:
CELL LINE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AUTHORS:
TITLE:
JOURNAL:
VOLUME:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LOCATION:
IDENTIFICATION METHOD:
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DATE:
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100.0%; Pred. No.
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US-08-256-771-17
; Sequence 17, Application
; Patent No. 5656591
; GENERAL INFORMATION:
; APPLICANT: Mamoru
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Best Local Similarity
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; MOLECULE TYPE:
US-08-256-771-17
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RESULT 16
US-08-381-984-17
                                                                                                             Matches
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Best Local Similarity
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Diskette,
COMPUTER: IBM Compatibl
                                                                                                                                                                                                                                                                                                                        REGISTRATION NUMBER: 33,367
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-8850
                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US/08/
FILING DATE: July 22, 1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
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                                                                                                                                                                                                                                                                                                                                                                                ATTORNEY/AGENT INFORMATION:
NAME: Warren M. Cheek, J
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linear
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                                                                                                           25.0%; Score 2; DB 100.0%; Pred. No. 1. tive 0; Mismatches
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                                                                                                                                                       Sequence 27, Application US/08871163 Patent No. 5885782
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                                                                                                                                          GENERAL INFORMATION:
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SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATTORNEY/AGENT INFORMATION:
NAME: WALTEN M. Cheek, Jr.
REGISTRATION NUMBER: 3,367
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-8850
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/0
FILING DATE: April 11, 1
CLASSIFICATION: 252
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
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           CURRENT APPLICATION DATA
                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                              TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                           APPLICANT:
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NUMBER OF SEQUENCES:
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                      CCMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
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OTHER INFORMATION: pe
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les 2; Conserv
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STRANDEDNESS: sir
APPLICATION NUMBER:
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ZIP: 20005
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CITY: Washington
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o. 5804555
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100.0%; Pr
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peptides including the specified peptide
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RESULT 19
PCT-US95-11724-27
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Best Local Similarity
Watches 2; Conserv
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                                                                                                                                                                        Sequence 27, Applicat GENERAL INFORMATION:
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Best Local Similarity
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 3 amino acids
                           SOFTWARE:
CURRENT APPLICATION DATA:
                                                                                                                                TITLE OF INVENTION: NUMBER OF SEQUENCES:
                                                                                                                  COMPUTER READABLE FORM:
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                                                                      COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
APPLICATION NUMBER: FILING DATE:
                                                          SOFTWARE:
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TOPOLOGY: li
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TOPOLOGY: li
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llarity 100.0%; Pred. No.
Conservative 0; Mismatc
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             PCT/US95/11724
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Pred. No. 1.0
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No. 1.6e+05;
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RESULT 21
US-07-714-540-11
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                                                                                                      Query Match
Best Local Similarity
Thes 2; Conserv
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Patent No. 5256766
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
1.ENGTH: 4 amino acids
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INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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CORRESPONDENCE ADDRESS:
ADDRESSEE: IRELL & MANELLA
STREET: 545 MIDDLEFIELD ROAD, SUITE 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                 REGISTRATION NUMBER: 29,959
REFERENCE/DOCKET NUMBER: 20
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-327-7250
                                                                                                                                                                                                                                                                                                                                                                                               ATTORNEY/AGENT INFORMATION: NAME: MURASHIGE, KATE H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
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LENGTH: 3 amino acids
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CLASSIFICATION: 435
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STRANDEDNESS: Sin
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Best Local S
Matches 2
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GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                              Sequence 12, Application US/07714540 Patent No. 5262521 GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRANDEDNESS:
TOPOLOGY: lin
MOLECULE TYPE:
                                                                                                                          APPLICANT: Almquist, Ronald G.
APPLICANT: Toll, Lawrence
TITLE OF INVENTION: ISOLATED ATRIAL PEPTIDE-DEGRADING
TITLE OF INVENTION: ENZYME AND NOVEL COMPOUNDS USEFUL AS INHIBITORS THEREOF
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSE: Irell & Manella
STREET: 545 middlefield Road, Suite 200
CITY: Menlo Park
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1
CURRENT APPLICATION DATA:
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ADDRESSE: Irell & Manella
STREET: 545 middlefield Road, Suite 200
CITY: Menlo Park
STATE: California
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NAME: Reed, Dianne E.
REGISTARTION NUMBER: 31,292
REFERENCE/DOCKET NUMBER: 85'
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-327-7250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Almquist, Ronald G. APPLICANT: Toll, Lawrence
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                                                                                                           COUNTRY:
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ENZYME AND NOVEL COMPOUNDS USEFUL AS INHIBITORS THEREOF
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   Version #1.25
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RESULT 23
US-08-165-545-7
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; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-714-540-12
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Best Local Similarity 100.
"""hes 2; Conservative
                                                                                    INFORMATION FOR SEQ ID NO:
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INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
LENGTH: 4 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLCGY: linear
                                                                                                                                                                                                                                                                                                  COMPUTER: IBM Compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: DisplayWrite
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/165,545
FILING DATE:
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MEDIUM TYPE: Diskette, 5.
COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Mamoru TOMITA et al.
TITLE OF INVENTION: Antimicrobial Reptivantion: Antimicrobial Agent
                                                                                                                                                                                     ATTORNEY/AGENT INFORMATION:
NAME: Warren M. Cheek, J
REGISTRATION NUMBER: 33,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE/DOCKET NUMBER: 8500-0135.00 TELECOMMUNICATION INFORMATION: TELEPHONE: 415-327-7250
                                                                                                                                   TELECOMMUNICATION INFORMATION: TELEPHONE: 202-371-8850
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FILING DATE: 19910607
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
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CITY: Washington
STATE: D.C.
                                                                                                                                                                       REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                         FILING DATE:
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REGISTRATION NUMBER: 31,292
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VENTION: Antimicrobial Peptide and
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100.0%; Pred. No. 1.
tive 0; Mismatches
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Best Local Similarity
The Conserve
                                                                                                                                                                                                                                                              Sequence 38, Applicat Patent No. 5434133 GENERAL INFORMATION:
                                                                                                                                                    APPLICANT: TANAKA, SHOJI
APPLICANT: MINAMITAKE, YOSHIHARU
APPLICANT: KITAJIMA, YASUO
APPLICANT: FURUYA, MAYUMI
APPLICANT: FURUYA, MAYUMI
APPLICANT: MATSUO, HISAYUKI
TITLE OF INVENTION: CNP ANALOG PEPTIDES AND THEIR USE
NUMBER OF SEQUENCES: 42
          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compati
                                                                                                                            NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: CUSHMAN,
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OTHER INFORMATION:
PUBLICATION INFORMATION:
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NAME/KEY:
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                                                                                                  STREET: 1625 L ST
CITY: WASHINGTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AUTHORS:
TITLE:
                                                                     STATE: D.C.
COUNTRY: US
 OPERATING SYSTEM:
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DATE:
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TISSUE TYPE:
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1625 L STREET, N.W.
                                                                       USA
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compatible
PC-DOS/MS-DOS
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100.0%; Pred. No. 1.
tive 0; Mismatches
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; LENGTH: 4 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-07-828-450-38
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US-08-127-904-11
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TELEFAX: 202-822-0944
TELEX: 6714627 CUSH
INFORMATION FOR SEQ ID NO: 3
SEQUENCE CHARACTERISTICS:
LENGTH: 4 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 25.0%; Score 2; DB 1; Length 4; Best Local Similarity 100.0%; Pred. No. 1.6e+05; Matches 2; Conservative 0; Mismatches 0; Indel.
                                                                       COMPUTER: Wang PC

COMPUTER: Wang PC

OPERATING SYSTEM: MS DOS Version 3.20

SOFTWARE: Microsoft

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/127,904

FILING DATE: 29 September 1993

CLASSIFICATION: 424

PRIOR APPLICATION: 424

PRIOR APPLICATION DATA: No. 5470951e
ATTORNEY/AGENT INFORMATION:
NAME: I FONS, Edward S.
REGISTRATION NUMBER: No. 5470951e

TELEPHONE: (202) 783-6031

TELEPHONE: (202) 783-6031
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 11, Application US/08127904 Patent No. 5470951
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ATTORNEY/AGENT INFORMATION:
NAME: SCOTT, WATSON T.
REGISTRATION NUMBER: 26,581
REFERENCE/DOCKET NUMBER: 9437
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-861-3067
               TELEX: NO. 5470951e
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION: APPLICANT: Eugene
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TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM: MEDIUM TYPE: 3M Double Density 5 1/4" diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: C1ty of Hope
STREET: 1500 East Duarte Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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CITY: Duarte
STATE: California
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2 SF 3
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FILING DATE: 19920131
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LENGTH:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Protein and Improving the Quality of Life in Individuals With Alzheimer Disease
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Amnestic Effects of Amyloid n
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Title:
Perfect score:
Sequence:
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No.
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Maximum DB seq length: 200000000
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 Pred. No. 1s the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                       Score
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Match Length DB
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 GenCore version 4.5 Copyright (c) 1993 - 2000 Compugen Ltd
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class II histocomp
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hypothetical prote
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locustakinin - mig
dermorphin (Typ-4,
neuromodulatory pe
hucolin, 75K chain
rpsA protein - Erw
spasmogenic toxin
leucokinin VII - M
cardioacceleratory
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5 afxg

Query Match 37.5%; Score 3; DB Best Local Similarity 100.0%; Pred. No. 2 Matches 4; Conservative 0; Mismatche	RESULT 2 A60753 beta-lactamase (EC 3.5.2.6) - Lysobacter enzy C; Species: Lysobacter enzymogenes C; Date: 14 - May -1993 # sequence_revision 14 - May C; Accession: A60753 R; von Tigerstrom, R.G.; Boras, G.J. J. Gen, Microbiol. 136, 521-527, 1990 A; Title: beta-Lactamase of Lysobacter enzymog A; Reference number: A60753; MUID:90362037 A; Accession: A60753 A; Molecule type: protein A; Residues: 1-41 < VON> C; Keywords: antiblotic resistance; hydrolase;	Query Match Best Local Similarity 100.0%; Pred. No. 2 Matches 4; Conservative 0; Mismatche Qy 5 afxg 8 Db 17 AFXG 20	RESULT 1 818955 Class II histocompatibility antigen HLA-DR bet class II histocompatibility antigen HLA-DR bet class II histocompatibility antigen HLA-DR bet class II histocompatibility antigen HLA-DR bet class II histocompatibility antigen MID:83075335 A;Molecule type: protein A;Residues: 1-31 <mim> C;Superfamily: class II histocompatibility ant</mim>	30 2 25.0 10 2 C61440 31 2 25.0 11 1 EOOCC 32 2 25.0 11 1 EOOCC 33 2 25.0 11 2 S07203 34 2 25.0 11 2 A34564 35 2 25.0 11 2 A34669 36 2 25.0 11 2 B4798 37 2 25.0 11 4 S5225 38 2 25.0 11 4 S5225 39 2 25.0 12 1 A53709 40 2 25.0 12 2 S01122 41 2 25.0 12 2 S01123 44 2 25.0 12 2 S01123 44 2 25.0 12 2 S01123 44 2 25.0 13 2 S011119 45 2 25.0 13 2 S011119 46 2 25.0 13 2 S03493 47 2 25.0 13 2 S03493 48 2 25.0 13 2 S03473 50 2 25.0 13 2 S32473
DB 2; Length 41; . 2.6e+02; ches 0; Indels 0; Gaps 0;	<pre>c enzymogenes (fragment) [4-May-1993 #text_change 07-May-1999 rzymogenes: induction, purification and charac 37</pre>	DB 2; Length 31; . 2e+02; ches 0; Indels 0; Gaps 0;	ENTS beta chain - human (fragments) Jun-1987 #text_change 30-May-1997 rdh, L.; Peterson, P.A. id sequence of papain-solubilized class II antigen; immunoglobulin homology	polygalacturonase eledoisin - curied eledoisin - musky uperclein - frog (buccalin - Califor Achatina cardio-ex gallbladder stone T-cell receptor ga hypothetical prote alpha-conotoxin Im hypothetical prote photosystem II 3.7 cytokinin-binding T-cell antigen rec photosystem IF pro 40K extracellular dissimilatory sulf R-phycocrythrin ga lymnabFamide 1 - g lymnabFamide 3 - g lymnabFamide 3 - g

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Nature 40
A; Title:
                                                 hypothetical protein yhjG [imported] - Escherichia C;Species: Escherichia coli C;Date: 16-Feb-2001 #sequence_revision 16-Feb-2001 C;Accession: E86025 R;Perna, N.T.; Plunkett III, G; Burland, V; Mau, R;Perna, N.T.; Plunkett III, G; Burland, V; Mau, R;Perna, N.T.; Plunkett III, G; Burland, V; Mau, R;Perna, N.T.; Plunkett III, G; Burland, V; Mau, R;
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C; Genetics:
A; Gene: yebF
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C;Accession: F85630
R;Perna, N.T.; Plunkett III, G.; Burland, V.; Mau, B.; Glasner, J.D.; Rose, iller, L.; Grotbeck, E.J.; Davis, N.W.; Lim, A.; Dimalanta, E.; Potamousis, Nature 409, 529-533, 2001
                                         iller,
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iller, L.; Grotbeck, E.J.; Davis, N.W.; Lim, A.; Dimalanta,
Nature 409, 529-533, 2001
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A;Molecule type: DNA
A;Residues: 1-122 <STO>
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Pred. No. 1.3e+03;
0; Mismatches 0;
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No. 6.6e+02;
O;
   Escherichia
                                     Dimalanta,
                                 B.; Glasner,
Dimalanta, E.;
                                                                                        #text_change 31-Mar-2001
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anta, E.; Potamousis,
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coli
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                                   J.D.; Rose, Potamousis,
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K.; A
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K.; A
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blood cell protein A - Molgula manhattensis (fragment) C;Species: Molgula manhattensis (C;Date: 19-Mar-1997 #sequence_revision 29-Aug-1997 #text_change C;Accession: $68328 R;Taylor; S:W.; Ross, M.M.; Waite, J.H.
                                                                                      A; Molecule type:
A; Residues: 1-3 <
                                                                                                                       A; Reference number: S68325; A; Accession: S68328
                                                                                                                                     Arch. Biochem. Biophys. 324, 228-240, 1995
A; Title: Novel 3,4-di- and 3,4,5-trihydroxyphenylalanine-containing
A; Reference number: S68325; MUID:96132650
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         hypothetical protein ydbH [imported] -
C;Species: Escherichia coli
C;Date: 16-Feb-2001 #sequence_revision
C;Accession: G85739
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C;Superfamily: Escherichia coli membrane protein ydbH
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A; Residues: 1-879 <STO>
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C; Superfamily:
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A; Residues: 1-691 <STO>
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A;Accession: E86025
A;Status: preliminary
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C;Superfamily: dermorphin precursor; dermorphin precursor amino-terminal homology C;Superfamily: dermorphin precursor amino-terminal homology C;Superfamily: amidated carboxyl end; D-amino acid; hydroxyproline; neuropeptide; sk F;2/Modified site: D-alanine (Ala) #status experimental P;6/Modified site: 4-hydroxyproline (Pro) (partial) #status experimental F;7/Modified site: amidated carboxyl end (Ser) #status experimental
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C;Species: Locusta migratoria (migratory locust)
C;Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 08-Dec-1995
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                                                                       dermorphin (Lys-7) [validated] - two-colored leaf frog C; Species: Phyllomedusa bicolor (two-colored leaf frog) C; Date: 10-Dec-1993 #sequence_revision 13-Mar-1997 #text C; Accession: S36662 R; Mignogna, G; Severini, C; Simmaco, M; Negri, L; Fa FEBS Lett, 302, 151-154, 1992 A; Title: Identification and characterization of two derm A; Meference number: S21152; MUID: 92339502 A; Accession: S36662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R;Montecucchi, P.C.; De Castiglione, R.; Erspamer, V. Int. J. Pept. Protein Res. 17, 316-321, 1981 A;Title: Identification of dermorphin and Hyp(6)-dermorphin A;Reference number: A61324; MUID:82029915 A;Accession: A61324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C:Species: Phyllomedusa rohde1 (Rohde's leaf frog)
C:Date: 17-Jul-1994 #sequence_revision 05-Aug-1994 #text_change
C:Accession: A61324
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A; Status: preliminary
A; Molecule type: protein
A; Residues: 1-7 <MIG>
C; Superfamily: dermorphir
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  dermorphin
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larity 100.0%; Pred. No. 2.
Conservative 0; Mismatches
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C;Species: Phyllomedusa bicolor (two-colored leaf frog (fragment) C;Date: 19-Mar-1997 #sequence_revision 10-Oct-1997 #text_change 18-Aug-2000 C;Accession: S21230
                                                           hucolin, 75K chain - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 15-Feb-1997 #sequence_revisio:
C:Accession: $68004
R:Edgar, P.F.
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A; Residues: 1-7 <MIG>
C; Superfamily: dermorphin precursor;
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A;Title: Identification and characterization of two dermorphins from skin extracts of A;Reference number: S21152; MUID:92339502
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FEBS Lett. 323, 104-108, 1993
A;Title: WMamide-1, -2 and -3: novel neuromodulatory peptides isolated from ganglia A;Reference number: S33244; MUID:93265912
A;Accession: S33245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C;Species: Achatina fulica (giant Afric
C;Date: 19-Mar-1997 #sequence_revision
C;Accession: S33245
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A; Residues: 1-7 <
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A;Title: Hucolin, a new corticosteroid-binding A;Reference number: S68004; MUID:96087107 A;Accession: S68004
                                                FEBS Lett.
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C;Species: Leucophaea maderae (Madeira Cockroach C;Date: 07-Sep-1990 #sequence_revision C;Accession: JS0317 R;Holman, G.M.; Cook, B.J.; Nachman © Comp. Biochem. Physic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rpsA protein - Erwinia chrysanthemi
C; Species: Erwinia chrysanthemi
C; Species: Erwinia chrysanthemi
C; Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 08-Oct-1999
C; Accession: S37141
R; Douillie, A.; Toussaint, A.; Faelen, M.
submitted to the EMBL Data Library, August 1993
submitted to the EMBL Data Library, August 1993
A; Description: Identification of the integration host factor genes of E. ch
                                                                                        RESULT
JS0317
                                                                                                                                                                                                                                                                                                                   R; Marangoni, S.; Borges, N.C.C.; Marangoni, Toxicon 31, 377-384, 1993
A; Title: Biochemical characterization of a valence number: A46306; MUID:93276438
A; Accession: A46306
                                                                                                                                                                                                                                                                                                                                                                                         C;Species: Phoneutria nigriventer
C;Date: 07-Oct-1994 #sequence_revision 07-Oct-1994
C;Accession: A46306
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A;Molecule type: prot
A;Residues: 1-7 <EDG>
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Pred. No. 2.2e+05;
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07-sep-1990
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No. 2.2e+05;
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                                           #text_change 20-Jun-2000
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A; Residues: 1-9 <SCH>
A; Experimental source: strain
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R;Schach, S; Tshisuaka, B; Fetzner, S; Lingens, F.
Bur. J. Biochem. 232, 536-544, 1995
A;Title: Quinoline 2-oxidoreductase and 2-oxo-1,2-dihydroquinoline 5,6-dic A;Reference number: S66606; MUID:96035889
A;Accession: S66607
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A;Title: Amino acid sequence of CAP(2b), an
A:Peference number: S66646; MUID:96013159
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A;Rocession: JS0317
A;Molecule type: protein
A;Residues: 1-8 <HOL>
C;Comment: Leucokinins, a family of cephalomyotropic peptides, stimulate contractile C;Keywords: amidated carboxyl end; cephalomyotropic peptide
C;Keywords: amidated carboxyl end; cephalomyotropic peptide
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C;Species: Manduca sexta (tobacco hornworm)
C;Date: 15-Feb-1997 #sequence_revision 13-Mar-1997 #text_change 17-Mar-1999
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A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-8 <HUE>
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dissimilatory sulfite reductase beta chain, C; Species: Desulforibrio desulfuricans

membrane-bound -

Desulfovibrio

desulfuric

RESULT S63491

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R:Ohara, N.; Kimura, M.; Higashi, Y.; Yamada, T. FEBS Lett. 331, 9-14, 1993
A;Title: Isolation and amino acid sequence of the 30S ribosomal protein S19
A;Reference number: S36887; MUID:94009653
A;Accession: S36898
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S36898
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A;Title: Molecular properties of the dissimilatory sulfite reductase A;Reference number: S63489; MUID:96085152
A;Accession: S63491
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ribosomal protein S8 - Mycobacterium bovis (fragment)
C;Species: Mycobacterium bovis
C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 13-Jan-1995
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A;Molecule type: protein
A;Residues: 1-9 <STE>
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RESULT
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A; Residues: 1-9 <OHA>
C; Keywords: protein biosynthesis; ribosome
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A;Reference number: A26363
A;Accession: A26363
A;Molecule type: protein
A;Residues: 1-9 <STA>
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A;Title: Unusual cardioactive peptide (CCAP) from pericardial organs
                                                                                                                                                                                                                                                                                  cardloactive peptide - green crab (fragment)
c;Speciles: Carcinus maenas (green crab, common shore crab)
C;Date: 25-Oct-1987 #sequence_revision 25-Oct-1987 #text_change
C;Accession: A26363
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neuropeptide Grb-AST B2 - two-spotted cricket)
C;Species: Gryllus bimaculatus (two-spotted cricket)
C;Date: 26-Jan-1996 #sequence_revision 28-Jan-1996 #text_change 26-Jan-1996
C;Accession: B57444
R;Lorenz, M.W.; Kellner, R.; Hoffmann, K.H.
J. Biol. Chem. 270, 21103-21108, 1995
A;Title: A family of neuropeptides that inhibit juvenile hormone biosynthesis in the A;Reference number: A57444; MUID:95403341
A;Ression: B57444
A;Status: preliminary
A;Molecule type: protein
A;Ressidues: 1-9 <LOR>
                                                                                                                                                                                                                  cardioactive peptide CCAP - yellow mealworm (;Species: Tenebrio molitor (yellow mealworm) C;pate: 07-Oct-1994 #sequence_revision 12-Apr-1996 #text_change 07-May-1999 C;Accession: 339766 R;Furuya, K.; Liao, S.; Reynolds, S.E.; Ota, R.B.; Hackett, M.; Schooley, D. Biol. Chem. Hoppe-Seyler 374, 1065-1074, 1993 A;Title: Isolation and identification of a cardioactive peptide from Tenebr: A;Reference number: S39766; MUID:94176032
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J. Biol. Chem. 270, 21103-21108, 1995
A;Title: A family of neuropeptides that inhibit juvenile hormone biosynthesis in A;Reference number: A57444; MUID:95403341
A;Accession: C57444
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C;Species: Gryllus bimaculatus (two-spotted cricket)
C;Date: 26-Jan-1996 #sequence_revision 26-Jan-1996 #text_change 26-Jan-1996
C;Accession: C57444
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RESULT 25
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cardioactive peptide CCAP - tobacco hornworm
C;Species: Manduca sexta (tobacco hornworm)
C;Date: 09-Jun-1994 #sequence_revision 12-Apr-1996 #text_change 12-Apr-1996
C;Accession: $27233
R;Cheung, C.C.; Loi, P.K.; Sylwester, A.W.; Lee, T.D.; Tublitz, N.J.
FEBS Lett. 313, 165-168, 1992
A;Title: Primary structure of a cardioactive neuropeptide from the tobacco hawkmoth, Man A;Accession: $27233; MUID:93050243
A;Accession: $27233
A;Accession: $27233
A;Molecule type: protein
A;Residues: 1-9 <CHE>
C;Keywords: neuropeptide
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Search completed: January 14, 2002, 07:58:38 Job time: 388 sec
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Carcinus
                                                                                                                                                                                                    "Isolation and identification of multiple neuropeptides of the allatostatin superfamily in the shore crab Carcinus maenas."; Eur. J. Biochem. 250:727-734(1997).
-i- FUNCTION: MAY ACT AS A NEUROTRANSMITTER OR NEUROMODULATOR.
-i- SIMILARITY: BELONGS TO THE ALLATOSTATIN FAMILY.
Neuropeptide; Multigene family.
SEQUENCE 7 AA; 796 MW; 672879CDCB476B70 CRC64;
                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca; Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyu. Eubrachyura; Portunoidea; Portunidae; Carcinus. NCBI_TaxID-6759;
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MOD_RES 7 7 AMIDATION.
SEQUENCE 7 AA; 781 MW; 672879CDCB47642
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-i - FUNCTION: MAY ACT AS A NEUROTRANSMITTER OR NEUROMODULATOR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Carcinus maenas (Common shore crab) (Green crab).

Bukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;

Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyura;

Eubrachyura; Portunoidea; Portunidae; Carcinus.

NCBI_TaxID=6759;
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-!- SIMILARITY: BELOWGS TO THE ALLATOSTATIN
Neuropeptide; Multigene family.
SEQUENCE 7 AA; 782 MW; 672879CDCB476AC0
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MEDLINE-93265912; PubMed-8495720;

Mindkata H., Ikeda T., Muneoka Y., Kobayashi M., Nomoto K.;

Mindkata H., Ikeda T., novel neuromodulatory peptides isolate

"Wwamide-1, -2 and -3: novel neuromodulatory peptides isolate

gangila of the African giant snail, Achatina fulica.";

FEBS Lett. 323:104-108(1993).

-i- FUNCTION: EXHIBITS MODULATORY EFFECTS ON THE PERIPHERAL |

SYSTEM. INHIBITS ACTIVITY ON A CENTRAL NEURON.

PIR; S33245; S33245.
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**TISSUE****Cerebral ganglion, and Thoracic MEDLINE***98121193; PubMed***9461295;

**Duve H., Johnsen A.H., Maestro J.-L., September 1. S
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Eumalacostraca; Eucarida; Decapoda; Pleocyemata;
Eubrachyura; Portunoldea; Portunidae; Carcinus.
NCBI_TaxID=6759;
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Achatina fulica (Giant African Eukaryota; Metazoa; Mollusca; Cachatinacca; Achatinidae; Achat
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-I- FUNCTION: MAY ACT AS A NEUROTRANSMITTER OR NEUROMODU.
-- SIMILARITY: BELONGS TO THE ALLATOSTATIN FAMILY.
Neuropeptide; Multigene family.
Neuropeptide; Mak: 913 MW; 672879CDCB569AB7 CRC64;
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CARCINUSTATIN 12.
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sca; Gastropoda; Pulmonata; Stylommatophora;
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-I- SIMILARITY: BELLONGS TO THE ALLATOSTATIN FAMILY.
Neuropeptide; Amidation; Multigene family.
CHAIN 1 8 CARCINUSTATIN 7.
CHAIN 2 8 CARCINUSTATIN 6.
CHAIN 4 8 CARCINUSTATIN 1.
MOD_RES 8 8 AMIDATION.
SEQUENCE 8 AA; 825 MW; 922879CDCB4775BD CRC64;
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Thorpe A.
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CARCINUSTATIN 7 [CONTAINS: CARCINUSTATIN 6; CARCINUSTATIN 1].
Carcinus maenas (Common shore crab) (Green crab).
Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;
Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyura;
Eubrachyura; Portunoidea; Portunidae; Carcinus.
NCBI_TaxID=6759;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TISSUE-Cerebral ganglion, and Thoracic MEDLINE-98121193; PubMed-9461295; Duve H., Johnsen A.H., Maestro J.-L., S
                                                                                                 p81811;
30-MAY-2000 (Rel. 39, Created)
30-MAY-2000 (Rel. 39, Last sequence up
30-MAY-2000 (Rel. 39, Last annotation
CARCINUSTATIN 8.
Carcinus maenas (Common shore crab) (G
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Thorpe A.
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TISSUG=Cerebral ganglion, and Thoracic ganglion, and Thoracic ganglion, MEDLINE-98121193; PubMed-9461295;
MEDLINE-98121193; PubMed-9461295;
MEDLINE-98121193; PubMed-9461295;
MEDLINE-98121193; PubMed-9461295;
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Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;
Eumalacostraca; Bucarida; Decapoda; Pleocyemata; Brachyura;
Eubrachyura; Portunoidea; Portunidae; Carcinus.
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LEUCOKININ I (L-I).
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30-MAY-2000 (Rel. 3
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CARCINUSTATIN 9.
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                                                                                                                                                                                                                                                                                Leucophaea maderae (Madeira cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blaberoidea; Blaberidae; Leucophaea.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "Isolation and identification of multiple neuropeptides of the allatostatin superfamily in the shore crab Carcinus maenas."; Eur. J. Biochem. 250:727-734(1997).

-!- FUNCTION: MAY ACT AS A NEUROTRANSMITTER OR NEUROMODULATOR.
-!- SIMILARITY: BELONGS TO THE ALLATOSTATIN FAMILY.
Neuropeptide; Amidation; Multigene family.
MOD_RES 8
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                                                                                                                          Comp. Biochem. Physiol. 84C:205-211(1986).
-i-FUNCTION: THIS CEPHALOMYOFROPIC PEPTIDE STIMULATES
-ACTIVITY OF COCKROACH PROTODEDM (HINDGUT).
-i- SIMILARITY: TO THE OTHER LEUCOKININS.
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                                                                                                                                                                            Cephalomyotropins."
                                                                                                                                                                                        Holman G.M., Cook B.J., Nachman R.J.; Isolation, primary structure and synthesis of two neuropeptides from Leucophaea maderae: members of a new family of
                                                                                                                                                                                                                   Holman G.M.,
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                                                                                                                                                                                                                                             SEQUENCE, AND
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Query Match
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Best Local
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Holman G.M., Cook B.J., Nachman R.J.;
Holman G.M., Cook B.J., Nachman R.J.;
Holman G.M., Cook B.J., Nachman R.J.;
Holman G.M., Cook B.J., Nachman R.J.;
"Isolation, primary structure and synthesis of leucokinins VII and VIII: the final members of this new family of cephalomyotropic peptides isolated from head extracts of Leucophaea maderae.";
Comp. Biochem. Physiol. 88C:31-34(1987).
-i- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACTILE ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).
-i- SIMILARITY: TO THE OTHER LEUCOKININS.
PIR; JS0317; JS0317.
PIR; JS0317; JS0317.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         NS3_MYCTU STANDARD; PRT; 8 AA. P81152; 15-JUL-1999 (Rel. 38, Created) 15-JUL-1999 (Rel. 38, Last sequence update) 20-AUG-2001 (Rel. 40, Last annotation update) 30 KDA NON-SECRETORY PROTEIN 3 (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                               Actinomycetales;
NCBI_TaxID=1773;
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01-FEB-1991 (Rel. 17, Created)
01-FEB-1991 (Rel. 17, Last sequence up
01-FEB-1991 (Rel. 17, Last annotation
LEUCOKININ VII (L-VII)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LEUMA
LCK7_1
                                                                                                                                                                                                                                                                                                                                                                                                                                       Mycobacterium tuberculosis.
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MOD_RES 8 8 8
SEQUENCE 8 AA; 866 MW
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta; Eukaryota; Neoptera; Ottopteroidea; Dictyoptera; Blattaria; Blaberoidea; Blaberidae; Leucophaea.
                                                                                                                                                                                                                                                                                                                                                                                                                 Bacteria; Firmicutes; Actinobacteria; Actinobacteridae;
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25.0%; Solitarity 100.0%; I Conservative 0;
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100.0%; Pr
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b. 1e+05;
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RESULT 15
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ORMY_ORCLI
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Best Local Similarity iv.
Conservative
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"Two orcokinins and the novel octapeptide orcomyotropin in the hindgut of the crayfish Orconectes limosus: identified myostimulatory neuropeptides originating together in neurones of the terminal abdominal ganglion.";

J. Exp. Biol. 203:2807-2818(2000).

J. Exp. Biol. 203:2807-2818(2000).

J. AMPLITUDE OF SPONTANEOUS HINDGUT CONTRACTIONS. IT IS SYNTHESIZED BY ABDOMINAL GANGLIONIC NEURONS.
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P82455;
20-AUG-2001
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P37985;
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SEQUENCE
                                                                                                                                                                                               DOUILILE A. TOUSSAINT A. FAGLEN M.;
DOUILILE A. TOUSSAINT A. FAGLEN M.;
SUBMITTED (AUG-1993) TO THE EMBL/GENBANK/DDBJ databases.

-I- FUNCTION: BINDS MRNA; THUS FACILITATING RECOGNITION OF THE
INITIATION POINT. IT IS NEEDED TO TRANSLATE MRNA WITH A SHORT
SHINE-DALGARNO (SD) FURINE-RICH SEQUENCE (BY SIMILARITY).

-I- SIMILARITY: BELONGS TO THE SIP FAMILY OF RIBOSOMAL PROTEINS.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TISSUE-Hindgut;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORCOMYOTROPIN (OMT).
the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entitles requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-OCT-1994 (Rel. 30,
01-OCT-1994 (Rel. 30,
01-NOV-1995 (Rel. 32,
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20-AUG-2001 (Rel. 40, Last sequence update)
20-AUG-2001 (Rel. 40, Last annotation update)
                                                                                                                                      This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation
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87C861B1A9CDDAA9 CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     allatostatin superfamily in the shore crab Carcinus maenas.";
Eur. J. Biochem. 250:727-734(1997).
-i- FUNCTION: MAY ACT AS A NEUROTRANSMITTER OR NEUROMODULATOR
-i- SIMILARITY: BELONGS TO THE ALLATOSTATIN FAMILY.
Neuropeptide; Amidation; Multigene family.
MOD_RES
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MMIDATION.
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Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;
Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyura;
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Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca; Eucarida; Decapoda; Pleocyemata; Brachyura; Eubrachyura; Portunoidea; Portunidae; Carcinus.
NCBI_TaxID=6759;
                  TISSUE-Cerebral ganglion, and Thoracic MEDLINE-98121193; PubMed-9461295;
                                                                                                                                                                                                                           CARCINUSTATIN 11.
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    Duve
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                                                                                                                                                                                                                                                                                                                                              SPECIES-C.maenas; TISSUE-Pericardial organs; Stangler J., Hilbich C., Beyreuther K., Keller R.; "Unusual cardioactive peptide (CCAP) from pericardial organs of shore crab Carcinus maenas."; Proc. Natl. Acad. Sci. U.S.A. 84:575-579(1987).
                                                                                                                                                                                                                                                                                                                                                                                                                                Spodoptera eridania (Southern armyworm).
Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;
Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyura;
Eubarachyura; Portunoidea; Portunidae; Carcinus.
NCBI_TaxID=6759, 7130, 7067, 37547;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Carcinus maenas (Common shore crab) (Green crab),
Manduca sexta (Tobacco hawkmoth) (Tobacco hornworm),
Tenebrio molitor (Yellow mealworm), and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-OCT-1994 (Rel. 30, Created)
01-OCT-1994 (Rel. 30, Last sequence update)
15-DEC-1998 (Rel. 37, Last annotation updat
CARDIOACTIVE PEPTIDE (CCAP)
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                                                                                             PIR; S27233;
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                                                                                                                                                             "Isolation and identification of a cardioactive molitor and Spodoptera eridania.";
                                                                                                                                                                                                             SPECIES=T.molitor, and S.eridania; TISSUE=Head. MEDLINE=94176032; PubMed=8129851;
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                                                                                Neuropeptide;
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                                                                                                                            1. Chem. Hoppe-Seyler 374:1065-1074(1993). FUNCTION: THE EFFECT OF CCAP IS BOTH INOTISSUE SPECIFICITY: STORED IN PERICARDIAL
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AC P41517;

DT 01-NOV-1995 (Rel. 32, Created)

DT 01-NOV-1995 (Rel. 32, Last sequence update)

DT 01-NOV-1995 (Rel. 32, Last sequence update)

DT 01-NOV-1995 (Rel. 32, Last annotation update)

CALLITACHYKININ I.

OS Calliphora vomitoria (Blue blowfly).

CE Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;

OC Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomo

Calliphoridae; Calliphoridae; Calliphora.
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MOSF_CLIVIA
P19853;
O1-FEB-1991 (Rel. 17, Created)
O1-FEB-1991 (Rel. 17, Last sequence update)
O1-FEB-1991 (Rel. 17, Last annotation update)
O1-FEB-1991 (Rel. 17, Last annotation update)
O1-FEB-1991 (Rel. 17, Last annotation update)
O1-FEB-1991 (Rel. 17, Last annotation update)
O1-FEB-1991 (Rel. 17, Last annotation update)
O1-FEB-1991 (Rel. 17, Created)
                                                                                                                                                                                                                                                                                                               SEQUENCE, AND SYNTHESIS.
MEDLINE=95075727; PubMed=79844
Lundquist C.T., Clottens F.L.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE-Egg jelly;
Suzuki N., Kurita M., Yoshino K.I., Kajiura H., Nomura K
Yamaguchi M.;
"Purification and structure of mosact and its derivative
egg jelly of the sea urchin Clypeaster japonicus.";
2001. 3Ci. 4:649-656(1987).
1- FUNCTION: STIMULATES SPERM RESPIRATION AND MOTILITY.
PIR; JN0027; JN0027.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    _CLYJA
                                                                                                                                                                                                                                the blowfly, Calliphora vomitoria, that have resemblances tachykinins.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Clypeaster japonicus (Sand dollar). Eukaryota; Metazoa; Echinodermata;
                                                                                             SEQUENCE
                                                                                                                                                       -!- FUNCTION: MYOACTIVE PEPTIDE.
                                                                                                                                                                                                                                                                                               Naessel D.R.;
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                                                                                                                                     rachykinin;
                                                                                                                                                                                                        Peptides 15:761-768(1994)
                                                                                                                                                                                                                                                                       "Callitachykinin I and II, two novel myotropic peptides isolated
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lottens F.L., Holman
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Q2OB_COMTE
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Matches 2; Conser
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01-NOV-1995 (Rel. 32, Last sequence update)
20-AUG-2001 (Rel. 40, Last annotation update)
00INOLINE 2-OXIDOREDUCTASE, BETA CHAIN (EC 1.3.99.17) (FRAGMENT).
Bacteria; Proteobacteria; beta subdivision; Comamonadaceae; Comamo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Schach S., Tshisuaka B., Fetzner S., Lingens F.;
"Quinoline 2-oxidoreductase and 2-oxo-1.2-dihydroquinoline 5,6-
dloxygenase from Comamonas testosteroni 63. The first two enzymes
quinoline and 3-methylquinoline degradation.";
Eur. J. Blochem. 232:536-544(1995).
-I- FUNCTION: CONVERTS. (3-METHYL-)-QUINOLINE TO (3-METHYL-)2-OXO-
                       STRAIN BRISTOL N2;
MEDLINE-97295299; PubMed-9150941;
Bini L., Heid H., Liberatori S., Geier G.,
"Two-dimensional gel electrophoresis of Cambon of the components and identification of protein in the components of the components o
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01-NOV-1997 (Rel. 35, Last sequence update)
01-NOV-1997 (Rel. 35, Last annotation update)
UNKNOWN PROTEIN FROM 2D-PAGE (SPOT 11) (FRAGMENT).
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    SEQUENCE
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Rhabditidae; Peloderinae;
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CATALYTIC ACTIVITY: QUINOLINE + ACCEPTOR + H(2)O ~ ISOQUINOLINE + REDUCED ACCEPTOR.
1(2H)-ONE + REDUCED ACCEPTOR.
COFACTOR: FAD, MOLYBDENUM AND IRON-SULFUR.
PATHWAY: FIRST STEP IN THE DEGRADATION OF QUINOLINE AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (3-METHYL-)QUINOLINE.
SUBUNIT: HETEROHEXAMER OF TWO ALPHA CHAINS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 2;
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TKC2_CALVO
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CEP1_ACHFU STANDARD; PRT; 11 AA.

P22790;
01-AUG-1991 (Rel. 19, Created)
01-BCC-1992 (Rel. 24, Last sequence update)
01-DCC-1992 (Rel. 24, Last annotation update)
01-DCC-1992 (Rel. 24, Last annotation update)
CARDIO-EXCITATORY PEPTIDE-1 (ACEP-1).
Achatina fulica (Giant African snail).

Eukaryota; Metazoa; Mollusca; Gastropoda; Pulmonata; Stylommatophora;
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SEQUENCE
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Fujimoto K., Ohta N., Yoshida M., Kubota I., Muneoka Y., Kobayashi Fujimoto K., Ohta N., Yoshida M., Kubota I., Muneoka Y., Kobayashi Pujimoto K., Ohta N., Yoshida M., Kubota I., Muneoka Y., Kobayashi Pujimoto K., Ohta N., Kobayashi Pujimoto K., Ohta N., Kobayashi Pujimoto K., Kobayash
"Callitachykinin I and II, two novel the blowfly, Calliphora vomitoria, the tachykinins.";
Peptides 15:761-768(1994).
-!- FUNCTION: MYOACTIVE PEPTIDE.
                                                                                                                      SEQUENCE, AND SYNTHESIS.
MEDLINE=95075727; PubMed=7984492;
Lundquist C.T., Clottens F.L., Ho
                                                                                                                                                                                                       Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Musco Oestroidea; Calliphoridae; Calliphora.
NCBI_TaxID=27454;
                                                                                                                                                                                                                                                                                               Calliphora vomitoria (Blue blowfly).
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82D6D5B9C7741365 CRC64;
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TKN1_UPEIN
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30-MAY-2000 (Rel. 39, Last sequence update)
30-MAY-2000 (Rel. 39, Last annotation update)
UPERIN 1.1.
Uperoleia inundata (Floodplain toadlet).
Uperoleia inundata; Croniata; Vertebrata; Euteleostomi;
Eukaryota; Metazoa; Chordata; Craniata; Bufonoidea; Myobatrachidae;
Uperoleia.
Amphibia; Batrachia; Anura; Neobatrachia; Bufonoidea; Myobatrachidae;
Uperoleia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -: TISSUE SPECIFICITY: SECRETED BY THE SKIN DORSAL GLANDS.
-: MASS SPECTROMETRY: MW-1208; METHOD-FAB.
-: SIMILARITY: BELONGS TO THE TACHYKININ FAMILY.
InterPro: IPR003580; Protachykinin.
InterPro: IPR002580; Protachykinin.
Pfam; PF02202; Tachykinin; 1.
SMART; SM00203; TK; 1.
SMART; SM002057; TACHYKININ; 1.
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"Novel uperin peptides from the dorsal glands of the australian floodplain toadlet Uperoleia inundata.";
Aust. J. Chem. 49:475-484(1996).
-i- FUNCTION: TACHYKINING ARE ACTIVE PEPTIDES WHICH EXCITE NEURONS, EVOKE BEHAVIORAL RESPONSES, ARE POTENT VASODILATORS AND SECRETAGOGUES, AND CONTRACT (DIRECTLY OR INDIRECTLY) MANY SMOOTH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tachykinin; Amphibian skin; Amidation; Neuropeptide.

MOD_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.

MOD_RES 11 11 AMIDATION.

SEQUENCE 11 AA; 1226 MW; 3293693E59CDD457 CRC64;
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Tachykinin; Neuropeptide; Amidation.
MOD_RES 11 11 AMIDATION.
SEQUENCE 11 AA; 1103 MW; 15D7E3F9C9CDD444 C
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TISSUE=Skin secretion;
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15D7E3F9C9CDD444 CRC64;
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Rao L.V., Hoang A.D.;
Rao L.V., Hoang A.D.;
Purification and characterization of rabbit factor IX and existence as a two-chain factor IX alpha in circulating pla Thromb. Res. 64:57-68(1991).
1- SIMILARITY: TO SERINE PROTEASES, TRYPSIN FAMILY.
HSSP; P00761; 1MCT.
InterPro; IPR001254; Trypsin.
Pfam; PF00089; trypsin; 1.
Hydrolase; Serine protease.
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PROSITE; PS50088; ANK_REP_REGION;

PROSITE; PS50297; ANK_REP_REGION;

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Murphy L., Quail M.,
Oliver K.;
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01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
PROBABLE PRE-MRNA SPLICING FACTOR RNA HELICASE PRP16
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The decular phylogeny of melanopline grasshoppers (Orthoptera: RT Acrididae). The genus Melanopline grasshoppers (Orthoptera: RT Acrididae). The genus Melanopline. The grasshoppers (Orthoptera: RT Ann. Entomol. Soc. Amer. 92:617-623(1999).

RI Ann. Entomol. Soc. Amer. 92:617-633(1999).

COMPLEX (COMPLEX III OR CYTOCHROME B-C1 COMPLEX), WHICH IS A COMPLEX (COMPLEX III OR CYTOCHROME B-C1 COMPLEX), WHICH IS A COMPLED TO ATP SYNTHESIS (BY SIMILARITY).

COUPLED TO ATP SYNTHESIS (BY SIMILARITY).

COPACTOR: TWO HEME GROUPS (B562 AND B566) WHICH ARE NOT COVALENTLY BOUND TO THE PROTEIN (BY SIMILARITY).

COPACTOR: THE MAIN SUBUNITS OF COMPLEX B-C1 ARE: CYTOCHROME B, CYTOCHROME C1 AND THE RIESKE PROTEIN (BY SIMILARITY).

COPACTROME C1 AND THE RIESKE PROTEIN (BY SIMILARITY).

REMBL; ART145493; AAD56053.1; -.

REMBL; ART145493; AAD56053.1; -.

REMBL; ART145493; AAD56053.1; -.

REFIGURE TO THE CYTOCHROME B/B6 FAMILY.

REPERTY OF THE CYTOCHROME B/B6 FAMILY.

REMBL; ART145493; AAD56053.1; -.
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Best Local
Matches
           Matches
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Best Local
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Q9NNG8;
01-OCT-2000
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Q9TC61;
01-MAY-2000
01-MAY-2000
01-JUN-2001
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Eukaryota; Euglenozoa;
NCBI_TaxID=5664;
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Pterygota; Neoptera; Orthopteroidea; Orthoptera; Caelifera;
Acridomorpha; Acridoidea; Acrididae; Melanoplus.
NCBI_TaxID-103641;
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llarity 100.0%;
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KDA PROTEIN (FRAGMENT)
      Score 3; DB 5; Pred. No. 1.3
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Sarver S.K., Freshwater D., Walsh P.J.;

Libmitted (MAY-1995) to the EMEL/GenBank/DDBJ databases.

Submitted (MAY-1995) to the EMEL/GenBank/DDBJ databases.

COMPLEX (COMPONENT OF THE UBIQUINOL-CYTOCHROME C REDUCTASE

COMPLEX (COMPLEX III OR CYTOCHROME B-C1 COMPLEX), WHICH IS A

COMPLEX (COMPLEX III OR CYTOCHROME B-C1 COMPLEX), WHICH IS A

CC COMPLEX COMPLEX III OR CYTOCHROME B-C1 COMPLEX), WHICH IS A

CC COUPLED TO ATP SYNTHESIS (BY SIMILARITY).

CC -1- CATALYTIC ACTIVITY: QH(2) + 2 FERRICYTOCHROME C -: Q + 2

FERROCYTOCHROME C.

CC -1- COFACTOR: TWO HEME GROUPS (B562 AND B566) WHICH ARE NOT COVALENTL

CC -1- SUBUNIT: THE MAIN SUBUNITS OF COMPLEX B-C1 ARE: CYTOCHROME B,

CC -1- SUBUNIT: THE MAIN SUBUNITS OF COMPLEX B-C1 ARE: CYTOCHROME B,

CC -1- SIMILARITY: BELONGS TO THE CYTOCHROME B/B6 FAMILY.

REMBL; U26959; AAA70175.1; -.
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Submitted (AUG-1999) to the EMBL/GenBank/DDBJ databases EMBL; AB031728; BAA86191.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mulyanto, Hijikata M., Matsushita M., Ingkokusmo G., Widjaya A Sumarsidi D., Kanai K., Ohta Y., Mishiro S.; Sumarsidi D., Kanai K., Ohta Y., Mishiro S.; Trius (TTV) genotypes in native and non-native prostitutes Irian Jaya, Indonesia: implication for non-occupational
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A. STRAIN-TTV WAM973;
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                                                                                                                                                                                                                                                      Eukaryota; Motazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Meopterygii; Teleostei; Euteleostei; Neoteleostei Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Percoid Lutjanidae; Lutjaninae; Lutjanus.
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TEVOLUTION: COMPONENT OF THE UBIQUINOL-CYTOCHROME C REDUCTASE

COL. J. LIND. SOC. 0.0-0(2000).

COMPLEX (COMPONENT OF THE UBIQUINOL-CYTOCHROME C REDUCTASE

COMPLEX (COMPLEX III OR CYTOCHROME B-C1 COMPLEX), WHICH IS A

COUPLED TO ATP SYNTHESIS (BY SIMILARITY).

COFACTOR: TWO HEME GROUPS (B562 AND B566) WHICH ARE NOT COVALENTLY

COFACTOR: THE PROTEIN (BY SIMILARITY).

COFACTOR: THE MAIN SUBUNITS OF COMPLEX B-C1 ARE: CYTOCHROME B,

COTOCHROME C1 AND THE RESKE PROTEIN (BY SIMILARITY).

COFACTOR AND THE RESKE PROTEIN (BY SIMILARITY).

COFACTOR AND THE RESKE PROTEIN (BY SIMILARITY).

COFACTOR AND THE RESKE PROTEIN (BY SIMILARITY).

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COFACTOR AND THE RESKE PROTEIN (BY SIMILARITY).

COFACTOR SIBUNITS: BELONGS TO THE CYTOCHROME B,

COFACTOR AND THE RESKE PROTEIN (BY SIMILARITY).

COFACTOR AND THE RESKE PROTEIN (BY SIMILARITY).

COFACTOR AND THE RESKE PROTEIN (BY SIMILARITY).

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COFACTOR AND THE RESKE PROTEIN (BY SIMILARITY).
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NON_TER 13
SEQUENCE 130
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Pfam; PFO0033;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "Evolutionary diversification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
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Mammalia; Eutheria;
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CYTOCHROME B (FRAGMENT).

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RALLATA M.C., PATTON J.L.;

REVOLUTIONARY diversification of spiny rats (genus Trinomys, Rodentia Trinomys) in the Atlantic Forest of Brazil.";

RECHIMYIdae) in the Atlantic Forest of Brazil.";

RECHIMYIdae) in the Atlantic Forest of Brazil.";

RECHIMYIdae) in the Atlantic Forest of Brazil.";

RECHIMYIdae) in the Roce of Oldon J. (2000).

RECHIMICAL COMPONENT OF THE UBJUINOL-CYTOCHEMME C REDUCTASE COMPLEX (COMPLEX III OR CYTOCHEMME B-C1 COMPLEX), WHICH IS A RECHIMICAL POTENTIAL COMPLEX TO ATP SYMTHESIS (BY SIMILARTY).

RECHIMICAL TWO HEME GROUPS (B562 AND B566) WHICH ARE NOT COVALENTL COPACTOR: TWO HEME GROUPS (B562 AND B566) WHICH ARE NOT COVALENTL COPACTOR: TWO HEME GROUPS (B562 AND B566) WHICH ARE NOT COVALENTL COPACTOR: TWO HEME GROUPS (B562 AND B566) WHICH ARE NOT COVALENTL COPACTOR THE PROTEIN (BY SIMILARITY).

REPUBLIANTIA BELONGS TO THE CYTOCHROME B/B6 FAMILY.

REMBL; AF194319; AAF16121.1; -...

REMBL; AF194319; AAF16121.1; -...

REMBL; AF194319; AAF16121.1; -...

REMBL; AF1943319; CYT_D b6.
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01-OCT-2000 (TrEMBLrel. 15,
01-OCT-2000 (TrEMBLrel. 15,
01-JUN-2001 (TrEMBLrel. 17,
                                                                                                                                                                                SEQUENCE
                                                                                                                                                                                                                                                                                                                                                        "Recovery of a Nitrosomonas-like habitats.";
                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A. Speksnijder A.G.C.L.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      unidentified proteobacterium
                                                                                                                                                                                                                                                       Pfam; PF02461; AMO; 1.
                                                                                                                                                                                                                                                                                                      EMBL; AJ388566;
                                                                                                                                                                                                                                                                                                                                   Submitted (JUL-1999) to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCBI_TaxID=2722;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bacteria;
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Mammalia; Eutheria;
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                                                                                                                                                                                                                                                                                 InterPro; IPR003393; AMO.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Proteobacteria;
                                                                                                                                                                                149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          131 AA;
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                                                  larity 100.0%; Conservative 0;
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Rodentia;
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100.0%;
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Last annotation update)
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Pred. No.
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Hystricognathi; Echimyidae; Trinomys.
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lo. 2e+03;
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sequence group from
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RESULT
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Best Local
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Q9G578;
01-MAR-2001
01-MAR-2001
01-JUN-2001
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Q59551;
01-NOV-1996
                   EVOLUTION 54:1349-1362(2000).
-I- FUNCTION: COMPONENT OF THE UBIQUINOL-CYTOCHROME C REDUCTASE COMPLEX (COMPLEX III OR CYTOCHROME B-C1 COMPLEX), WHICH IS
                                                                                                                                                            Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei; Acanthomorpha; Acanthopterygii; Percomorpha; Atherinomorpha; Beloniformes; Belonidae; Xenentodon.
                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata;
                                                                                                                                                                                                                                          CYTB.
                                                                                                                                                                                                                                                     CYTOCHROME B
                                                             allies."
                                                                                                 MEDLINE=20458311; PubMed=11005301;
                                                                                                               STRAIN=N26;
                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                 NCBI_TaxID=129108;
                                                                                                                                                                                                               Mitochondrion.
                                                                                                                                                                                                                            Xenentodon cancila.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Construction of an EcoRI restriction map of Mycoplasma localization of selected genes";
J. Bacteriol. 174:7289-7296(1992).
-i- CATALYTIC ACTIVITY: ATP + H(2)0 = ADP + PHOSPHATE.
-i- SIMILARITY: TO ATPASE ALPHA/BETA CHAINS FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-UN-2001 (TrEMBLrel. 17, Last annotation update)
01-UN-2001 (TrEMBLrel. 17, Last annotation update)
ADENOSINETRIPHOSPHATASE (EC 3.3) (ADENVLPYROPHOSPHATASE) (ATP
                                                                      Reinterpreting recapitulation: systematics
                                                                                     Lovejoy N.R.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        InterPro; IPR000194; ATPase_alpha_beta.
Pfam; PF00006; ATP-synt_ab; 1.
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Wenzel R., Pirkl E.,
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Bacteria; Firmicutes; Bacillus/Clostridium group; Mollicutes;
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RESPIRATORY CHAIN THAT GENERATES AN ELECTROCHEMICAL POTENTIAL COUPLED TO ATP SYNTHESIS (BY SIMILARITY).
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151 AA;
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E., Herrmann R.;
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16671 MW;
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                                                                                                                                                                                      ; Craniata; Vertebrata; Euteleostomi; Teleostei; Euteleostei; Neoteleostei
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Pred. No.
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b. 2e+03;
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Q9ZH44;
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NON_TER
SEQUENCE
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-I- SUBUNIT: THE MAIN SUBUNITS OF COPPLEX B-C1 ARE: CYTOCHROME B, CYTOCHROME C1 AND THE RIESKE PROTEIN (BY SIMILARITY).
-I- SIMILARITY: BELONGS TO THE CYTOCHROME B/B6 FAMILY.
EMBL; AF243891; AAG42985.1; -.
InterPro: IPROMO179; CYt_b6.
Piam; PF00033; CYtochrome_b_N; 1.
PROSITE; PS00192; CYTOCHROME_B_HEME; 1.
Electron transport; Heme; Mitochondrion; Respiratory chain;
                                                                                                        086976 PRELIMINARY; PRT; 213 AA. 086976; 01-NOV-1998 (TrEMBLrel. 08, Created) 01-NOV-1998 (TrEMBLrel. 08, Last sequence update) 01-JUN-2001 (TrEMBLrel. 17, Last annotation update) 01-JUN-2001 (TREMBLREL 17, Last annotation update) 01SSIMILATORY SULFITE REDUCTASE ALPHA SUBUNIT (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRAIN: WKAYLC;
van Meer M.M.M., Witteveldt J.,
"Phylogeny of the arthropod end
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Wolbachia sp. wKayLC.
Bacteria; Proteobacteria; alpha subdivision; Rickettsiales;
Rickettsiaceae; Wolbachieae; Wolbachia.
NCBI_TaxID>77833;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-MAY-1999 (TrEMBLrel. 10, Created)
01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
0UTER SURFACE PROTEIN PRECURSOR (FRAGMENT).
                                        Desulfococcus multivorans.
Bacteria; Proteobacteria; delta subdivision; Desulfococcus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Insect Mol. Biol. 0:0-0(1999).
EMBL; AF071927; AAC77407.1; -.
InterPro; IPR002566; Surface_Ag_msp4
Pfam; PF01617; Surface_Ag_2; 1.
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Pred. No.
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C: -i FUNCTION: COMPONENT OF THE UBIQUINOL-CYTOCHROME C REDUCTASE

C: -i FUNCTION: COMPONENT OF THE UBIQUINOL-CYTOCHROME C REDUCTASE

C: -i COMPLEX (COMPLEX III OR CYTOCHROME B-C1 COMPLEX), WHICH IS A

C: -i COMPLED TO ATP SYNTHESIS (BY SIMILARITY).

C: -i COPACTOR: TWO HEME GROUPS (BSC2 AND B566) WHICH ARE NOT COVALEN

C: -i COMPLED TO ATP SYNTHESIS (BY SIMILARITY).

C: -i SUBUND TO THE PROTEIN (BY SIMILARITY).

C: -i SUBUNIT: THE MAIN SUBUNITS OF COMPLEX B-C1 ARE: CYTOCHROME B,

CYTOCHROME C1 AND THE RIESKE PROTEIN (BY SIMILARITY).

C: -i SIMILARITY: BELONGS TO THE CYTOCHROME B/B6 FAMILY.

DR EMBL; AJ338425; CAB53332.1; -.

REMBL; AJ338425; CAB53332.1; -.

REMBL; AJ338425; CAB53332.1; -.

REMBL; AJ338425; CYTOCHROME B/B6 FAMILY.

REMBL; PRO0032; CYTOCHROME_B_DS.

REMBL; PRO0193; CYTOCHROME_B_DS.

REMOSITE; PS00193; CYTOCHROME_B_DOJ, UNKNOWN_1.

REMOSITE; PS00193; CYTOCHROME_B_DOJ, UNKNOWN_1.
     Query Match
Best Local Similarity
Matches 4; Conser
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EMBL; U58126; AAC24101.1; -. InterPro; IPR000660; Nir_Sir.
Pfam; PF01077; NIR_SIR; 1.
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O9TEJ6;
O1-MAY-2000 (TrEMBLrel. 1
O1-MAY-2000 (TrEMBLrel. 1
O1-JUN-2001 (TrEMBLrel. 1
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Mammalia; Eutheria;
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SEQUENCE FROM
                                                                                                                                                                                                  Transmembrane.
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||||
22 AFXG 25
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importance of ice ages in diversification of Arcti-
ings (Dicrostonyx): evidence from the mitochondrial
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4; Conser
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305
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33890;
  37.5%;
ilarity 100.0%;
Conservative
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34456
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13,
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Last annotation updat
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       Score 3; DB 8
Pred. No. 3.8
0; Mismatches
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Pred. No. 2.8
0; Mismatches
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te reductases s
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DB 8; Lc..,
lo. 3.8e+03;
0;
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                                                                                                                                                                                                                           Respiratory chain;
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                                                    Length 305;
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Best Local Similarity
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Q95792;
01-FEB-1997 (7
01-FEB-1997 (7
01-JUN-2001 (7
CYTOCHROME C (
                                                         CYTB.
Phyllotis osgoodi (Osgood's
                                                                                                                                                                                                                                                                                                                NON_TER
NON_TER
SEQUENCE
                      Eukaryota; Metazoa;
Mammalia; Eutheria;
                                               Mitochondrion
                                                                                   CYTOCHROME B
                                                                                             Q9ZZG1;
01-MAY-1999 (TIEMBLIEL 10,
01-MAY-1999 (TIEMBLIEL 10,
01-JUN-2001 (TIEMBLIEL 17,
                                                                                                                                                                                                                                                                                                                                                                                                                                  BOUND TO THE PROTEIN (BY SIMILARITY).

1. SUBUNIT: THE MAIN SUBUNITS OF COMPLEX B-C1 ARE: CYTOC CYTOCHROME C1 AND THE RIESKE PROTEIN (BY SIMILARITY).

1. SIMILARITY: BELIONGS TO THE CYTOCHROME B/B6 FAMILY.

EMBL; U49347; AABB6601.1;
                                                                                                                                                                                                                                                                                                                                                                                                 InterPro; IPR000179; Cyt_b_b6.
Pfam; PF00032; cytochrome_b_C; 1.
Pfam; PF00033; cytochrome_b_N; 1.
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             Phyllotis
                                                                                                                                              Q9zzc1
                                                                                                                                                                                                                                                                                                                                                                           PROSITE;
                                                                                                                                                                                                                                                                                                                                                                                     PROSITE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bruna
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Lepidosauria; Squ
Scincidae; Emoia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mitochondrion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Emoia cyanura (blue-tailed skink).
                                                                                                                                                                                                                                                                                                                                                    Transmembrane.
                                                                                                                                                                                                                                                                                                                                                                 Electron
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=38244;
                                                                                                                                                                                                        101 AFXG
                                                                                                                                                                      17
                                                                                                                                                                                                                                G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESPIRATORY CHAIN THAT GENERATES AN ELECTROCHEMICAL POTENTIAL COUPLED TO ATP SYNTHESIS (BY SIMILARITY).

CATALYTIC ACTIVITY: QH(2) + 2 FERRICYTOCHROME C = Q + 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FERROCYTOCHROME C. COFACTOR: TWO HEME GROUPS (B562 AND B566)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       na E.M., Fisher R.N., Case T.J.;
C. R. Soc. Lond., B, Biol. Sci. 263:681-688(1996).
FUNCTION: COMPONENT OF THE UBIQUINOL-CYTOCHROME C REDUCTASE
COMPLEX (COMPLEX III OR CYTOCHROME B-C1 COMPLEX), WHICH IS &
                                                                                                                                                                                                                               afxg 8
                                                                                                                                                                                                                                                                                                                                                           PS00192; CYTOCHROME B_HEME; 1.
PS00193; CYTOCHROME_B_QO; UNKNOWN_1.
transport; Heme; Mitochondrion; Resp
                                                                                                                                                                                                        104
                                                                                                                                                                                                                                                                                                                311
311 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (TrEMBLrel. 02,
(TrEMBLrel. 02,
(TrEMBLrel. 17,
                                                                                                                                                                                                                                                        Conservative
                                                                                                                                              PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRELIMINARY;
                                                                                   (FRAGMENT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (FRAGMENT).
                                                                                                                                                                                                                                                                                                                311
34962 MW;
                                    Chordata;
                        Rodentia;
                                                                                                                                                                                                                                                                 37.5%;
100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Created)
Last sequence update)
Last annotation update)
                                                           leaf-eared
                                                                                              Last sequence update)
Last annotation updat
                                                                                                                      Created)
                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                 Score 3;
Pred. No.
                      Craniata; Vertebrata; | Sciurognathi; Muridae;
                                                                                                                                              PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRT;
                                                                                                                                                                                                                                                                                                                2CE6D105C11CF0C5
                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                              311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           311
                                                                                                                                                                                                                                                                 DB 8; Le
                                                          mouse).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A
                                                                                                                                                                                                                                                                                                                                                              Respiratory chain;
                                                                                              update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WHICH
                                                                                                                                                                                                                                                     0,
                                                                                                                                                                                                                                                                           Length 311;
                                                                                                                                                                                                                                                                                                                CRC64;
                                                                                                                                                                                                                                                     Indels
                      Euteleostomi;
; Sigmodontinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CYTOCHROME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ARE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Euteleostomi;
Scincoidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NOT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COVALENTLY
                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                     0;
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Q9MRX6
                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                 Q9MRX6;
                                                  SEQUENCE FROM N.A.

Clausing G., Renner S.S.;

Submitted (JAN-2001) to the EMBL/GenHank/DDBJ databases.

-!- CATALYTIC ACTIVITY: NADH + PLASTOQUINONE = NAD(+) + PLASTOQUINOL.
                                                                                                                                                                                                                                                                Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosideurosids II; Myrtales; Melastomataceae; Rhexia.
                                                                                                                                                                                                                                                                                                                                                        01-OCT-2000 (TrEMBLrel. 15, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             InterPro; IPR000179; Cyt_b_b6.

Pfam; PF00032; cytochrome_b_C; 1.

Pfam; PF00033; cytochrome_b, 1.

PROSITE; PS00192; CYTOCHROME_B_HEME;

PROSITE; PS00193; CYTOCHROME_B_QO; U
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              [1]
SEQUENCE
             EMBL; AF272819; AAF81819.2;
                                                                                                                     Submitted
                                                                                                                                SEQUENCE FROM N.A. Renner S.S., Meyer
                                                                                                                                                                                      molecular
  InterPro;
                                       -!- SIMILARITY:
                                                                                                                                                                                   "Melastomeae come full molecular clock dating.
                                                                                                                                                                                                              SEQUENCE FROM N.A. Renner S.S., Meyer
                                                                                                                                                                                                                                                   NCBI_TaxID=130523;
                                                                                                                                                                                                                                                                                                                     Rhexia mariana.
                                                                                                                                                                                                                                                                                                                                             NADH DEHYDROGENASE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Transmembrane.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL; U86825; AAD12350.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BOUND TO THE PROTEIN (BY SIMILARITY).

-i- SUBUNIT: THE MAIN SUBUNITS OF COMPLEX B-C1 ARE: CYTOCHROME B,
CYTOCHROME C1 AND THE RIESKE PROTEIN (BY SIMILARITY).

-i- SIMILARITY: BELONGS TO THE CYTOCHROME B/B6 FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              -i- FUNCTION: COMPONENT OF THE UBIQUINOL-CYTOCHROME C REDUCTASE COMPLEX (COMPLEX III OR CYTOCHROME B-C1 COMPLEX), WHICH IS A RESPIRATORY CHAIN THAT GENERATES AN ELECTROCHEMICAL POTENTIAL COUPLED TO ATP SYNTHESIS (BY SIMILARITY).

-i- COFACTOR: TWO HEME GROUPS (B562 AND B566) WHICH ARE NOT COVALENTLY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               morphology.";
J. Mammal. 79:0-0(1998)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NON_TER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Electron
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (Rodentia: Sigmodontinae):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Phylogenetic relationships and species limits within Phyllotis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRAIN-LCM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             117 AFXG
                                                                                                                                                                                                                                                                                                                                                                                                                                       18
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ت
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      afxg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                h 37.5%;
Similarity 100.0%;
4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  transport; Heme; Mitochondrion; Respiratory chain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FROM
IPR000916; Bet_v_I.
                                                                                                                    3., Meyer K
(MAY-2000)
                                                                                                                                                                        (JUL-2000) to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 638;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 311 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             311
                                                                                                                                                                                                                                                                                                                                                                                                              PRELIMINARY;
                                                                                                                                                                                                             Meyer K.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               N.A.
                                       TO NADH-UBIQUINONE/PLASTOQUINONE (COMPLEX I),
                                                                                                                                ×:
                                                                                                                                                                                                                                                                                                                                              (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 34708
                                                                                                                    to
                                                                                                                                                                                          circle: biogeographic
                                                                                                                     the
                                                                                                                                                                         the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          concordance between mtDNA sequence
                                                                                                                                                                         EMBL/GenBank/DDBJ
                                                                                                                    EMBL/GenBank/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 3; DB 8
Pred. No. 3.9
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                              PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3E91294031F728ED CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 UNKNOWN_1
                                                                                                                                                                                                                                                                                                                                                                                                              326
                                                                                                                                                                                                                                                                                                                                                                                                              AΑ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .9e+03;
                                                                                                                                                                                                    reconstruction
                                                                                                                                                                         databases
                                                                                                                     databases
                                                                                                                                                                                                                                                                               core eudicots; Rosidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 311;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0;
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RESULT 20
003340
ID 003340
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                                                                밁
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Bcst Local S
Matches 4
                                                                                                                                                                                                                          C -1- FUNCTION: COMPONENT OF THE UBIQUINOL-CYTOCHROME C REDUCTASE
C COMPLEX (COMPLEX III OR CYTOCHROME B-C1 COMPLEX), WHICH IS A
C COMPLEX (COMPLEX III OR CYTOCHROME B-C1 COMPLEX), WHICH IS A
C COMPLED TO ATP SYNTHESIS (BY SIMILARITY)
C -1- COFACTOR: TWO HEME GROUPS (B562 AND B566) WHICH ARE NOT COVALENTLY
BOUND TO THE PROTEIN (BY SIMILARITY).
C -1- SUBUNIT: THE MAIN SUBUNITS OF COMPLEX B-C1 ARE: CYTOCHROME B,
C CYTOCHROME C1 AND THE RIESKE PROTEIN (BY SIMILARITY).
C -1- SIMILARITY: BELONGS TO THE CYTOCHROME B,
C CYTOCHROME C1 AND THE RIESKE PROTEIN (BY SIMILARITY).
R EMBL: UB3284; AAB53600.1; -.
R EMBL: UB3284; AAB53600.1; -.
R FIBM: PF00032; CYTOCHROME_B_C; 1.
PF0M: PF00033; CYTOCHROME_B_C; 1.
PF0M: PF00033; CYTOCHROME_B_C].
R Pfom; PF00033; CYTOCHROME_B_O]: 1.
                                                                                                             Query Match
Best Local S
Matches 4
                                                                                                                                                                              Transmembrane.
NON_TER 1
SEQUENCE 346
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pfam; PF00361; oxidored_q1; 1. Pfam; PF01010; oxidored_q1_C; 1. ProDom; PD000531; Bet_v_I; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                           STRAIN-LSU11786;
Moore W.S., DeFilippis V.R.;
(In) Mindell D.P. (eds.);
Avian molecular evolution and systematics, pp.81-116, Academic Press,
003340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mitochondrion.
Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-JUL-1997 (TrEMBLrel. 04, 01-JUL-1997 (TrEMBLrel. 04, 01-JUN-2001 (TrEMBLrel. 17, CYTOCHROME B (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Chloroplast; NAD; Oxidoreductase; Plastoquinone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Campophilus haematogaster.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CYTB.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  003302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NCBI_TaxID=56085;
                                                                                                                                                                                                                   Electron transport;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 275 AFXG 278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EQUENCE FROM N.A.
                                                                94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5 afxg
                                                                                     afxg
                                                                AFXG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
4; Conserv
                                                                                                             h 37.5%;
Similarity 100.0%;
4; Conservative
                                                                97
                                                                                        8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       IPR001750; Oxidored_q1.
IPR002128; Oxidored_q1_C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  326 AA;
                                                                                                                                                                              346 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   37.5%;
ilarity 100.0%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRELIMINARY;
PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              326
37082 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Neognathae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chordata; Craniata; Vertebrata;
Neognathae; Piciformes; Picidae;
                                                                                                                                                                                                                     Heme;
                                                                                                                                                                              38424 MW;
                                                                                                                                                                                                                   Mitochondrion;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Created)
Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 3; DB 8; Pred. No. 4e+
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                0;
                                                                                                               Score 3; DB 8
Pred. No. 4.3
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRT;
 PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9B42F1A1B32BB906 CRC64;
                                                                                                                                                                              442E84BF45EEAA2E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   346
347
                                                                                                                            DB 8; Lei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   B
                                                                                                                                                                                                                   Respiratory chain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 326
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                                                                                                                                       Length 346
                                                                                                                                                                              CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Euteleostomi;
Campephilus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                  Gaps
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RESULT
003341
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Best Local S
Matches 4
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01-JUL-1997 (TrEMBLrel.
01-JUL-1997 (TrEMBLrel.
01-JUN-2001 (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CYTB.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                003340;
01-JUL-1997 (TrEMBLrel. 04,
01-JUL-1997 (TrEMBLrel. 04,
01-JUN-2001 (TrEMBLrel. 17,
                                              SEQUENCE FROM N.A.
STRAIN-WSU86149;
MOORE W.S., DeFilippis V.R.;
(In) Mindell D.P. (eds.);
Avian molecular evolution and systematics,
New York (1997).
                                                                                                                                                                                                                       003341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Moore W.S., DeFilippis V.R.;
(In) Mindell D.P. (eds.);
Avian molecular evolution and systematics, pp.81-116, Academic Press.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STRAIN-WSU86148;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=56079;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mitochondrion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sphyrapicus varius (Yellow-bellied
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CYTOCHROME B (FRAGMENT).
                                                                                                                                            Mitochondrion
                                                                                                                                                      Sphyrapicus varius
                                                                                                                                                               CYTB.
                                                                                                                                                                       CYTOCHROME B (FRAGMENT)
                                                                                                                                                                                                                                                                                                                                                                                   Electron transport; Heme; Mitochondrion;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Archosauria;
                                                                                                               Archosauria; Aves;
NCBI_TaxID=56079;
                                                                                                                                   Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                            Transmembrane.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                       95
                                                                                                                                                                                                                                          21
                                                                                                                                                                                                                                                                                        5 afxg
FUNCTION: COMPONENT OF THE UBIQUINOL-CYTOCHROME C REDUCTASE COMPLEX III OR CYTOCHROME B-C1 COMPLEX), WHICH IS A RESPIRATORY CHAIN THAT GENERATES AN ELECTROCHEMICAL POTENTIAL COUPLED TO ATP SYNTHESIS (BY SIMILARITY).

CATALYTIC ACTIVITY: QH(2) + 2 FERRICYTOCHROME C - Q + 2
                                                                                                                                                                                                                                                                     AFXG
                                                                                                                                                                                                                                                                                                           4; Conserv
                                                                                                                                                                                                                                                                       98
                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                          347 AA;
                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                        PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Aves;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Neognathae;
                                                                                                                          Neognathae;
                                                                                                                                                     (Yellow-bellied sapsucker).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chordata;
                                                                                                                                    Chordata;
                                                                                                                                                                                                                                                                                                                                                          38763 MW;
                                                                                                                                                                                                                                                                                                                    37.5%;
                                                                                                                                                                                04, Created)
04, Last sequence update)
17, Last annotation updat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Created)
                                                                                                                                                                                                                                                                                                           Score 3; DB 8
Pred. No. 4.3
0; Mismatches
                                                                                                                                                                                                                                                                                                             0;
                                                                                                                          Craniata; Vertebrata; piciformes; Picidae;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sapsucker).
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b. 4.3e+03;
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                                                                                                                                                                                                                                                                                                                                                                                     Respiratory chain;
                                                         pp.81-116, Academic Press,
                                                                                                                                                                                 update)
                                                                                                                                                                                                                                                                                                                             Length 347;
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Sphyrapicus.
                                                                                                                           Sphyrapicus.
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01-MAY-2000 (TrEMBLrel. 13,
01-MAY-2000 (TrEMBLrel. 13,
01-JUN-2001 (TrEMBLrel. 17,
                                                                                                                                                                                                                                                       BOUND TO THE PROTEIN (BY SIMILARITY).

-: SUBUNIT: THE MAIN SUBUNITS OF COMPLEX B-C1 ARE: CYTOCHROME CYTOCHROME CYTOCHROME DIAND THE RIESKE PROTEIN (BY SIMILARITY).

-: SIMILARITY: BELONGS TO THE CYTOCHROME B/B6 FAMILY.

EMBL; AJ243096; CAB45258.1; -.

InterPro: IPRO00179; CYL_b_b6.

Pfam; PF00032; CYTOCHROME_b_C; 1.

PROSITE: PS00192; CYTOCHROME_B_HEME; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Submitted (JUN-1999) to the EMBL/GenBank/DDBJ databases.

-!- FUNCTION: COMPONENT OF THE UBIQUINOL-CYTOCHROME C REDUCTASE
COMPLEX (COMPLEX III OR CYTOCHROME B-C1 COMPLEX), WHICH IS A
RESPIRATORY CHAIN THAT GENERATES AN ELECTROCHEMICAL POTENTIAL
COUPLED TO ATP SYNTHESIS (BY SIMILARITY).

-!- COPACTOR: TWO HEME GROUPS (B562 AND B566) WHICH ARE NOT COVALENTLY
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                                                                                                                                                                                                       PROSITE; PS00193; CYTOCHROME_B_QO; UNKNOWN_1.
Electron transport; Heme; Mitochondrion; Respiratory chain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Branco M., Ferrand N., Monnerot M.; "Phylogeography of the European rabbit (Oryctolagus cuniculus) of therian peninsula inferred from RFLP analysis of the cytochrome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eut
Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CYTOCHROME B (FRAGMENT).
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-!- SUBJURT: THE MAIN SUBJURITS OF COMPLEX B-C1 ARE: CYTOCHROME B, CYTOCHROME C1 AND THE RIESKE PROTEIN (BY SIMILARITY).
-!- SIMILARITY: BELONGS TO THE CYTOCHROME B/B6 FAMILY.
                                                                                                                                                                 NON TER
                                                                                                                                                                                      Transmembrane.
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei; Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Labroidei;
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-i- COFACTOR: TWO HEME GROUPS (B562 AND B566) WHICH ARE NOT COVALENTLY BOUND TO THE PROTEIN (BY SIMILARITY).

-i- SUBUNIT: THE MAIN SUBUNITS OF COMPLEX B-C1 ARE: CYTOCHROME B, CYTOCHROME C1 AND THE RIESKE PROTEIN (BY SIMILARITY).

-i- SIMILARITY: BELONGS TO THE CYTOCHROME B, SIMILARITY; BELONGS TO THE CYTOCHROME B, SIMILARITY; BELONGS TO THE CYTOCHROME B, SIMILARITY; BELONGS TO THE CYTOCHROME B/B6 FAMILY.

EMBL; AF000924; AAB64130.2; -
InterPro: IPR000179; CYt_b_b6.

Pfam; PF00032; CYTOCHROME_b_C; 1.

DEGATES. PROCESSURE AND ALEMED. 1.

DEGATES. PROCESSURE AND ALEMED. 1.
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Martin A.P., Bermingham E.;
Martin A.P., Bermingham E.;
Martin A.P., Bermingham E.;

"Systematics and evolution of lower Central American cichlids inferred
from analysis of cytochrome b gene sequences.";

Mol. Phylogenet. Evol. 9:192-203(1998).

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Mol. Phyl
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                                                                                Mitochondrion.
                                                                                                     Parachromis loisellei.
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Local Similarity 100.0%;
hes 4; Conservative 0;
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374 AA;
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-I COPACTOR: TWO HEME GROUPS (B562 AND B566) WHICH ARE NOT COVALENTLY BOUND TO THE PROTEIN (BY SIMILARITY).

-I SUBUNIT: THE MAIN SUBUNITS OF COMPLEX B-C1 ARE: CYTOCHROME B, CYTOCHROME C1 AND THE RIESKE PROTEIN (BY SIMILARITY).

-I SIMILARITY: BELONGS TO THE CYTOCHROME B/B6 FAMILY.

EMBL; AP009926; AAB64132.1; -.

Interpro; IPR000179; Cyt_b_b6.
Pfam; PP00032; Cytochrome_b_C; 1.
Pfam; PP00032; Cytochrome_b_C; 1.
PROSITE; PS00193; CYTOCHROME_B_BEME; 1.

PROSITE; PS00193; CYTOCHROME_B_GO; 1.

ELECTION TRANSPORT; Heme; Mitochondrion; Respiratory chain;

Pragrammbrane
                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.

STRAIN-ARGENTINA/85 C1;

MEDLINE-94149827; PubMcd-8107204;

MEDLINE-94149827; PubMcd-8107204;

Mattu M.G., Hornandez J., Martinez M.A., Feigelstock D., Lea S.,

Parez J.J., Giralt E., Stuart D., Palma E.L., Domingo E.;

Parez J.J., Giralt E., Stuart D., Palma E.L., Domingo E.;

"Antigenic heterogeneity of a foot-and-mouth disease virus serotype in the field is mediated by very limited sequence variation at several antigenic sites.";

J. Virol. 68:1407-1417(1994).

EMBL: 129062; AAA21017.1; -.
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NCBI_TaxID 63178;
[1]
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01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
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732 AA;
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379 AA; 42399 MW;
        Conservative
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79701 MW;
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100.0%; Pr
                                         37.5%; Score 3; DB 12; Length 732; 100.0%; Pred. No. 8.2e+03;
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Pred. No. 4.6e+03;
0; Mismatches 0;
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Search completed: January 14, 2002, 08:07:35 Job time: 765 sec

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Maximum DB seq length: 2000000000
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Copyright (c) 1993 - 2000 Compugen Ltd
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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	SUMMARIES			•

Result	Score	Query Match	% Query Match Length DB	₽B	ID	Description	
_	ω	37.5	ហ	19	AAW45592	Substrate #13 for	
ພ	w	37.5	15	15	AAR51894	Chitin binding pro	
ω	ω	37.5	45	20	AAY18320	Bovine prothrombin	
4	ω	37.5	45	22	AAB36400	Bovine prothrombin	
ហ	ω	37.5	65	20	AAY36099	Extended human sec	
6	w	37.5	91	22	AAG76045	Human colon cancer	
7	w	37.5	105	18	AAW27978	Amino acid sequenc	
8	ω	37.5	112	20	AAY13018	Human secreted pro	
9	w	37.5	127	20	AAY27139	Vertebrate slit pr	
10	ω	37.5	162	22	AAB63955	Human prostate can	
11	ω	37.5	172	22	AAG73946	Human colon cancer	

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11	10	<u>,</u>	ıσ	ഗ	ហ	w	N	2	N	2	2	N	Ν	N							22	21	20	19	19	19	17	17	16	16	15	21	22	22	22	22	22
0	<i>א</i> ככ	AAP91630	AAP50696	2	AAP40746	AAP20058	AAP10260	AAP10270	AAP10269	AAP10268	AAP10267	AAP10266	6	9	AAP10262	AAP10550	AAP10548	AAP10547	AAP10584	AAP10545	AAB92005	AAY49387	AAW84197	AAW41282	AAW56219	AAW76946	AAR90601	AAR98547	AAR84691	AAR85069	AAR48523	9	412	AAE04176	AAM43545	334	AAG80899
ocyte-stimu	f useful in	Motif useful in to	e or p		phine	CD.	e alcohol 2	ic agonist	C	agonist	ŗ	Narcotic agonist p	tic agonist		a	O					+3	Dermorphin derivat	Peptide comprising		Anti-inflammatory	_	er	æ	0	Calcium ion channe	Lactoferrin derive	ä	N	Human gene 2 encod	poly	P patens lipid met	Lipid degradation

ALIGNMENTS

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AAW45592
ID AAW4
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                                                                                                                                                                                                                                                                                                                          04-JUN-1998 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                      AAW45592 standard; peptide;
07-MAY-1996;
                             07-MAY-1996;
                                                                                                                                                                                        Key
Modified-site
                                                                                                                                                                                                                                     Synthetic.
                                                                                                                                                                                                                                                                 Protease activity; pepsin; pepsinogen; substrate; thiol derivative.
                                                                                                                                                                                                                                                                                               Substrate #13 for the determination of pepsin enzymic activity.
                                                                                                                                                                                                                                                                                                                                                           AAW45592;
                                                          18-NOV-1997.
                                                                                      JP09295997-A
                                                                                                                                 Modified-site
                                                                                                                                                              Modified-site
96JP-0112441.
                              96JP-0112441.
                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                   /note= "Gly-4-amino pyridine"
                                                                                                                                             /note= "beta-phenylthiolactic acid"
                                                                                                                                                                            /note= "benzyloxycarbonyl-Ala'
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present sequence represents a peptide substrate for the determination of pepsin activity. The invention relates to peptides of the following formula: X-A-B-C (I); X = H, a group masking a terminal condition of the following formula: X-A-B-C (I); X = H, a group masking a terminal condition of the following formula: X-A-B-C (I); X = H, a group masking a terminal condition of the following for an amino group used consisting of the protective group for an amino group used convaline, leucine, isoleucine, norleucine, serine and threonine, or a convaline, leucine, isoleucine, norleucine, serine and threonine, or a convaline, paranitrophenylalanine or tyrosine; C = thiol derivative complete constituted by I to 30 C atoms which can form thioester bond and C phenylalanine, paranitrophenylalanine or tyrosine; C = thiol derivative cresidue constituted by I to 30 C atoms which can form thioester bond and C by O, N and/or S and 2 to 10 H atoms can be substituted by O, N and/or S and 2 to 10 H atoms can be substituted by O, N and/or S and 2 to 10 H atoms can be substituted by O, N and/or S and T to 10 H atoms can be substituted by O, N and/or S and T to 10 H atoms can be substituted by O, N and/or S and T to 10 H atoms can be substituted by O, N and/or S and T to 10 H atoms can be substituted by O, N and/or S and T to 10 H atoms can be substituted by O, N and/or S and T to 10 H atoms can be substituted by O, N and/or S and T to 10 H atoms can be substituted by O, N and/or S and T to 10 H atoms can be substituted by O, N and/or S and T to 10 H atoms can be substituted by O, N and/or S and T to 10 H atoms can be substituted by O, N and/or S and T to 10 H atoms can be substituted by O, N and/or S and T to 10 H atoms can be substituted by O, N and/or S and T to 10 H atoms can be substituted by O, N and/or S and T to 10 H atoms can be substituted by O, N and/or S and T to 10 H atoms can be substituted by O, N and/or S and T to 10 H atoms can be substituted by O, N and/or S and T to 10 H atoms can be substituted by O, N and/or 
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Best Local Similarity
  Apotheker M,
                                                                              05-OCT-1992;
13-MAY-1993;
                                                                                                                                                                                                                                                                                                                                                                               Nicotiana tabacum
                                                                                                                                                                                                                                                                                                                                                                                                                                        Chitin binding protein; CBP; antifungal; fungicide; beta-1,3-glucanase; transgenic plant; disease-resis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Chitin binding protein internal peptide
                                       (MOGE-) MOGEN
                                                                                                                                          05-OCT-1993;
                                                                                                                                                                                 14-APR-1994
                                                                                                                                                                                                                                                                                Misc-difference
                                                                                                                                                                                                                                                                                                                       Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                                                        crop improvement;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             09-SEP-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAR51894 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 13; Page 8; 12pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New substrate for the determination of pepsin enzymatic activity - by allowing the enzyme to hydrolyse the substrate and then measuring the amount of thiol derivative formed
                                                                                                                                                                                                                      WO9408009-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (NITO ) NITTO BOSEKI CO
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2 afxg
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first
                                         INT
  Bres-vloemans AA,
                                                                                92EP-0203071.
93EP-0201370.
                                                                                                                                        93WO-EP02790.
                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                                                                                                                                                             /note=
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                                                                                                                                                                                                                                                                                                                                                                                                                        tobacco
                                         ٧V
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             37.5%; 50
100.0%; Pr
0;
                                                                                                                                                                                                                                                                                                                                                                                                                                        transgenic plant; disease-resistance;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         entry)
                                                                                                                                                                                                                                                                                                "probably tyrosine"
                                                                                                                                                                                                                                                         "probably proline or arginine"
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Pred. No.
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  Cornelissen BJC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 19; I
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  Melchers
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Best Local S
Matches 4
domain. The invention relates to a vitamin K-dependent polypeptide comprising a modified GLA domain containing an mino acid substitution which enhances membrane binding of the modified polypeptide as compared to the native polypeptide. The polypeptide is used to treat a clotting disorder by decreasing or increasing clot formation. Modification of the polypeptide is used to treat a clotting disorder by decreasing or increasing clot formation.
                                                                                                                    Vitamin K-dependent polypeptide with modified gamma-carboxyglutamic acid domain, useful for treating clotting disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New antifungal chitin binding protein from plants - without significant chitinase activity, showing synergistic activity with 1,3-beta-glucanase, also its nucleic acid, vectors, transformed plants, etc.
                                                                                         Disclosure; Page 44; 86pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Internal peptides of tobacco cv. Samsun NN chitin binding protein were obtained by digestion with protease V8 (peptide AAR51895) and I chlorosuccinimide/urea (peptide AAR51894). CBP can be expressed in transgenic plants to improve resistance to fungal pathogens.
                                                                 This sequence is the prothrombin GLA (gamma-carboxyglutamic acid)
                                                                                                                                                                                                            (MINU ) UNIV MINNESOTA
                                                                                                                                                                                                                                         23-OCT-1997;
                                                                                                                                                                                                                                                                 20-OCT-1998;
                                                                                                                                                                                                                                                                                           29-APR-1999
                                                                                                                                                                                                                                                                                                                     WO9920767-A1
                                                                                                                                                                                                                                                                                                                                                                        Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                                              Bos taurus
                                                                                                                                                                                                                                                                                                                                                                                                                                        therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                      GLA domain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bovine prothrombin GLA domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         17-AUG-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAY18320;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAY18320 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ponstein AS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            w
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                                                                                                                                                            1999-288309/24.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   vitamin K-dependent protein; clotting disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sela-buurlage MB
                                                                                                                                                                                                                                       97US-0955636
                                                                                                                                                                                                                                                                 98WO-US22152
                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
1..45
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     54pp;
                                                                                                                                                                                                                                                                                                                                               "Xaa= gamma-carboxyglutamic acid"
                                                                                          English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            45
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Pred. No. 2.7e+02;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                          acid, or glutamic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0,
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Best Local
                                    The present invention describes a vitamin K-dependent polypeptide (I) comprising a modified gamma-carboxy glutamic acid (GLA) domain having at least one amino acid substitution, that enhances membrane binding affinity and the activity of the polypeptide relative to a corresponding native vitamin K-dependent polypeptide and inhibits clot formation. (I) can have thrombolytic and haemostatic activities, and can be used as an inhibitor of clot formation. (I) is useful for decreasing clot formation in a mammal, a factor VII or factor IX containing a modified GLA domain is useful for increasing clot formation and for treating a bleeding disorder, including thrombosis and clotting disorders such as hacmophilia A, hacmophilia B and liver disease. The present sequence represents a bovine prothrombin GLA domain sequence, given in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Vltamin K-dependent protein; factor VII; protein C; GLA domain; gamma-carboxygintamic acid domain; factor IX; protein S; protei factor X; prothombln; enhanced membrane binding affinity; clot formation; thrombolytic; haemostatic; bleeding disorder; thrombosis; clotting disorder; haemophilia A; haemophilia B;
                                                                                                                                                                                                                                                                                     Novel vitamin K-dependent polypeptide useful for treating clotting disorders such as thrombosis and hemophilia, comprises modified gamma-carboxy glutamic acid domain that enhances membrane binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAB36400 standard; peptide; 45 AA
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                                                                                                                                                                                                                                                                                                                                                       WPI; 2001-007226/01.
                                                                                                                                                                                                                                                                                                                                                                                     Nelsestuen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              09-NOV-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO200066753-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bos taurus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bovine prothrombin gamma-carboxyglutamic acid domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            27-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAB36400;
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Sequence
                                                                                                                                                                                                                                             Example
                                                                                                                                                                                                                                                                                                                                                                                                                  (MINU ) UNIV MINNESOTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28-APR-2000; 2000WO-US11416
                            exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                 29-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      liver
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|rxxaf 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      disease.
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                                                                                                                                                                                                                                            Page 42; 81pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        45 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      37.5%; 5c.
100.0%; Pr
                              present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   protein which has enhanced membrane binding the native protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 3;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
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Query Match

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RESULT
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Matches
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                                                                                                                         Query Match
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17-DEC-1997;
09-FEB-1998;
13-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Secreted protein; human; cytokine; cellular proliferation; cell movemen cellular differentiation; immune system regulator; anti-inflammatory; haematopoiesis regulator; tissue growth regulator; tumour inhibitor; reproductive hormone regulator; chemotaxis; chemokinesis; gene therapy; genetic disease.
                                                                                                                                                                                                                                                 or have chemotactic/chemokinetic, receptor/ligand, anti-inflammatory or tumour inhibition activity. The DNAs can be used in forensic procedures to identify individuals or indiagnostic procedures to identify individuals or indiagnostic procedures to identify individuals having genetic diseases resulting from abnormal expression of the genes corresponding to the extended cDNAs. They are also useful for constructing a high resolution map of the human chromosomes. They can
                                                                                                                                                                                                                                                                                                                                                                         This sequence is encoded by an extended human secreted protein coding sequence of the invention. The secreted proteins can be used in treating or controlling a variety of human conditions. The secreted proteins may act as cytokines or may affect cellular proliferation or differentiation or may act as immune system regulators, haematopolesis regulators, tissue growth regulators, regulators of reproductive hormones or cell movement
                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                also
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New isolated human secreted proteins
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17-DEC-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Extended human
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAY36099;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAY36099 standard; Protein; 65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (GEST ) GENSET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1|||||
25 rxxaf 29
                                                                                                        Local
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                                         5 afxg
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afxg
                                                                                                                                                                                                                                be used
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                                                                                  4.
                                                                                                        Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Page 419; 516pp; English.
                                                                                                                                                                                        65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                  Conservative
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                                                                                                                                                                                                                                for gene therapy to control or treat genetic
                                                                                                                                                                                      AA
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97US-0069957.
98US-0074121.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              secreted protein sequence,
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                                                                                                      37.5%;
100.0%;
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                                                                                                        Score 3;
Pred. No.
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                                                                                  Mismatches
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                                                                                                      DB 20; L
b. 6.5e+02;
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thes 0;
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                                                                                                                       Length 65;
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                                                                                  Indels
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RESULT
AAG76045
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Best Local Similarity
Thes 4; Conserv
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                             AAW27978
                                          RESULT
                                                                                                                                                                                                                                                                                                                        the proteins are collectively known as colon cancer antigens. The colon cancer antigens have cytostatic activity and can be used in gene therapy and vaccine production. N and P may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate P expression. For example, N and P may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome that affect the activity of P by expressing inactive proteins or to supplement the patients own production of P. Additionally, N may be used to produce the colon cancer-associated Ps, by inserting the nucleic acids into a host cell and culturing the cell to express the proteins. N and P can be used in the prevention, diagnosis and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204 and AAB77789 represent sequences used in the exemplification of the
         AAW27978 standard;
                                                                                                                                                                                                                                                           present invention.

N.B. Pages 666 to 682 and page 7053 of the sequence listing were missing at time of publication, meaning no sequences are present for SEQ ID NO:1027 to 1052, 7921 and 7922.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 11; Page 8261-8262; 9803pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nucleic acids encoding 4277 human colon cancer-associated polypeptides, useful for preventing, diagnosing and/or treating colorectal cancers -
                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAH32943 to AAH37195 and AAG73514 to AAG77788 represent human colon cancer-associated nucleic acid molecules (N) and proteins (P), where
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-235357/24.
N-PSDB; AAH35450.
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03-NOV-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                colorectal carcinoma; chromosome
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human colon cancer antigen protein SEQ ID NO:6809
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         03-SEP-2001 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (HUMA-) HUMAN GENOME SCI INC
                                                                                        83 afxg
                                                                                                                     5 afxg 8
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                                                                                                                                                      Conservative
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         Protein; 105 AA
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                                                                                                                                                    b; Score 3; DB 2
b; Pred. No. 8e+
0; Mismatches
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                                                                                                                                                                 DB 22;
D. 8e+02;
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AAY13018
ID AAY1
XX
AC AAY1
XX
DT 22-J
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Best Local Similarity
                                                                                                                                                                                                                                                                                                control of bacterial gene expression. The present protein may be used to produce vaccines to enable a host to produce specific antibodies with antibacterial action. These vaccines and antibodies would protect a host against invasion by S. aureus, and conditions relating to Staphylococcal infection, e.g. Staphylococcal food poisoning, scaled skin syndrome, and toxic shock syndrome.
                                                                                                                                                                                                                                                                                                                                                                                         The present sequence represents a Staphylococcus aureus protein, that, based on homology is believed to be a membrane-associated component of a branched amino acid transport system. The DNA sequence was isolated from a library of clones of S. aureus WCUH 29 in Escherichia coli. The DNA sequence can be used in the construction of ribozymes and antisense sequences to control the expression of Staphylococcal genes. The DNA sequence is also useful as a source of regulatory elements for the
22-JUN-1999
                               AAY13018;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Staphylococcus aureus protein; ribozyme; antisense sequence; control; Staphylococcal gene; regulatory element; bacterial gene expression; vaccine; Staphylococcal infection; food poisoning; scaled skin syndrome;
                                                          AAY13018 standard; Protein; 112
                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 6; Page 385-386; 989pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            aureus infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Novel polypeptide(s) from Staphylococcus aureus strain WCUH29 - to isolate antimicrobial compounds, and in vaccines against S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Black MT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO9730070-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20-FEB-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Amino acid sequence of branched amino acid transport system protein.
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                                                                                                                                   47 afxg
                                                                                                                                                 5 afxg 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  shock syndrome.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Burnham MK,
                                                                                                                                                                                              37.5%; Score 3; DB ilarity 100.0%; Pred. No. 8. Conservative 0; Mismatches
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    the specification"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Rosenberg M,
                                                            AA.
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b. 8.7e+02;
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(first entry)

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RESULT
AAY27139
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                 proteins obtained may have cytokine activity, cell proliferation/differentiation activity, hemmatopoiesis regulating activity, tissue growth regulating activity, reproductive hormone regulating activity, remotation activity, reproductive hormone activity, chemotatic/ chemokinetic activity, haemostatic and thrombolytic activity, receptor/ ligand activity, anti-inflammatory activity, tumour inhibition activity or other activities. The products can be used in forensic, gene therapy and chromosome mapping procedures. The sequences can also be used for obtaining corresponding promoter sequences. The nucleic acids encoding the signal peptide can be used for directing extracellular secretion of a polypeptide or the insertion of a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAV13219, respectively. The proteins given represent the signal pept and an N-terminal fragment of a secreted protein. The nucleic acid sequences can be used for producing secreted human gene products. The can also be used to develop products for diagnosis and therapy. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New isolated brain-derived nucleic acids - used to develop products which may have cytokine, immune, regulatory, haematopoiesis regulating, anti-inflammatory or tumour inhibition activity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     31-JUL-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       upstream regulatory sequence; cytokine activity; cell proliferation; differentiation; haematopolesis regulation; tissue growth regulation; reproductive hormone regulation; chemotractic; chemokinetic; haemostat thrombolytic; anti-inflammatory; tumour inhibition.
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N-PSDB; AAX51818.
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              Vertebrate slit protein (Seq ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAX51787 to AAX52019 represent 5' expressed sequence tags (ESTs) for human secreted proteins, and encode the proteins given in AAY12987 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human secreted protein encoded by 5' EST SEQ ID NO:
                                               15-SEP-1999
                                                                                AAY27139
                                                                                                              AAY27139 standard; protein; 127
                                                                                                                                                                                                                                                                                                                                                    Sequence
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                                                                                                                                                                                                                                                                                                                                                                                       polypeptide into a membrane, or importing
                                                                                                                                                                                             5 afxg 8
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64 afxg 67
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                                                                                                                                                                                                                                                                   4.
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                                                                                                                                                                                                                                                                   Conservative
                                             (first entry)
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                                                                                                                                                                                                                                                                 37.5%; Sc
100.0%; F
tive 0;
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pred. No. 9e+
0; Mismatches
              <u>N</u>O:
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              3 of JP11164690).
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). 9e+02;
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                                                                                                                                                                                                                                                                                                 Length 112
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AAB63955
ID AAB6
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Best Local S
Matches 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a vertebrate-derived protein containing an amino acid sequence shown in AAY27137 and AAY27139. The vertebrate-derived protein has at least 55 % homology to one of sequences shown in AAY27141-Y27143, and has slit protein-like activity. The vertebrate slit proteins encoding nucleic acid sequences have at least 60% homology to nucleic acid sequences AAX89161-163. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Vertebrate-derived protein; slit protein; muscle; endocrine system.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New vertebrate slit protein - useful for diagnosis cancers in nerves, muscle and endocrine system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               05-DEC-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            22-JUN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Key
                                                                                                                                                                        Human prostate cancer associated antigen protein sequence SEQ ID NO:1317.
                                                                                                                                                                                                                         AAB63955
                                                                                                                                                                                                                                                AAB63955 standard; Protein; 162
                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                 vertebrate-derived proteins can be produced recombinantly by transforming host cells with expression vectors comprising the encoding nucleic acids. The proteins of the invention are for diagnosing and treating cancer of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Vertebra
         28-MAY-1999;
10-SEP-1999;
                                            26-MAY-2000; 2000WO-US14749.
                                                                                         WO200073801-A2
                                                                                                                Homo sapiens
                                                                                                                                        cancer associated antigen;
                                                                                                                                                                                                 26-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                        the nerves, muscle and/or endocrine system
                                                                                                                                                                                                                                                                      10
                                                                                                                                                                                                                                                                                                       40 afxg 43
                                                                                                                                                                                                                                                                                                                                5 afxg 8
                                                                                                                                                   breast cancer; gastric cancer;
                                                                                                                                                                                                                                                                                                                                                       4.
                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                  127
                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               97JP-0335435.
         99US-0136526.
99US-0153454.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      97JP-0335435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /note=
                                                                                                                                                                                                                                                                                                                                                                               37.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "residues Xaa
                                                                                                                                        cytostatic;
                                                                                                                                                                                                                                                                                                                                                        0;
                                                                                                                                                                                                                                                                                                                                                                    Score 3;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          can be
                                                                                                                                                   prostate cancer; diagnosis;
                                                                                                                                                                                                                                                                                                                                                                    DB 20; L
). 9.7e+02;
                                                                                                                                        cancer vaccine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          diagnosis; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          any
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                                                                                                                                                                                                                                                                                                                                                                             Length 127;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          and treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           acid"
                                                                                                                                                                                                                                                                                                                                                        0;
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                                                                                                                                                                                                                                                                                                                                                        Gaps
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RESULT 11
AAG73946
ID AAG739
XX AAG739
XX Human
XX Human
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XX WO2001
XX WO2001
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XX WO2001
XX WO2001
XX WO3-APF
XX 29-SEE
PR 29-SEE
PR 03-NON
XX HUMA-
XX WPI; 1
DR WPSDE
XX WPI; 1
DR WPSDE
XX WPI; 1
DR WPSDE
XX WUClei
PT Useful
XX Claim
XX Claim
XX Claim
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Best Local S
Matches 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAF22422 to AAF22626, AAF22627 to AAF22773 and AAF22774 to AAF23014 represent nucleotide sequences encoding human breast, gastric and prostate cancer associated antigen precursors (CAAP) respectively. AAB63232 to AAB63467, AAB63468 to AAB63721 and AAB63722 to AAB63970 represent human breast, gastric and prostate CAAP protein sequence respectively. CAAPs have cytostatic activity and can be used in the production of cancer vaccines. The human CAAP proteins, peptides, nucleic acids or anti-CAAP antibodies are useful for diagnosing and treating a condition characterised by expression of an abnormal amount of a protein,
                                                         Nucleic acids encoding 4277 human useful for preventing, diagnosing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Nucleic acids encoding breast, gastric and prostate cancer associated antigen precursors, useful for diagnosing and treating a condition characterized by expression of an abnormal amount of a protein, e.g.
 AAH32943 to AAH37195 and AAG73514 to AAG77788 represent human colon
                               Claim 11; Page 6511-6512;
                                                                                                                                                       Ruben SM,
                                                                                                                                                                                                                   29-SEP-1999;
03-NOV-1999;
                                                                                                                                                                                                                                                                                             05-APR-2001.
                                                                                                                                                                                                                                                                                                                         WO200122920-A2
                                                                                                                                                                                                                                                                                                                                                                                   colorectal carcinoma; chromosome 11
                                                                                                                                                                                                                                                                                                                                                                                                  Human; colon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAG73946 standard; Protein; 172
                                                                                                                                                                                     (HUMA-) HUMAN GENOME
                                                                                                                                                                                                                                                               28-SEP-2000; 2000WO-US26524
                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                           Human colon cancer antigen protein SEQ ID NO:4710
                                                                                                                                                                                                                                                                                                                                                                                                                                                            03-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAG73946;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              e.g. cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 1; Page 792;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (LUDW-) LUDWIG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              128 afxg 131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5 afxg 8
                                                                                                            2001-235357/24.
DB; AAH33377.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2001-025274/03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4;
                                                                                                                                                       Barash SC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                  cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AA;
                                                                                                                                                                                                                   99US-0157137.
99US-0163280.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 INST CANCER RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        37.5%;
100.0%;
                                                                                                                                                                                     SCI INC
                                                                                                                                                                                                                                                                                                                                                                                               colon cancer antigen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              799pp; English.
                                                                                                                                                       Birse
                            9803pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; Score 3; DB 2
%; Pred. No. 1.1
0; Mismatches
                                                                                                                                                       CE,
                                                             colon cancer-associated polypeptides,
and/or treating colorectal cancers -
                               English
                                                                                                                                                       Rosen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 22; 1
                                                                                                                                                       CA;
                                                                                                                                                                                                                                                                                                                                                                                                 diagnosis; detection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
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AAG80899
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Matches
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                                                                                                                                                                                                                                                                                                                                                                         fatty acid transport; genetic engineering; fatty acid; enzyme; plant; microorganism; polyunsaturated fatty acid; oilseed plant; maize; wheat; biotic stress tolerance; abiotic stress tolerance; rice; barley; soybean; peanut; cotton; rapeseed; canola; manihot; pepper; sunflower; tagetes; potato; tobacco; eggplant; tomato; Vicia; pea; alfalfa; coffee; cacao; tea; Salix; oil palm; coconut;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              expression. For example, N and P may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome that affect the activity of P by expressing inactive proteins or to supplement the patients own production of P. Additionally, N may be used to produce the colon cancer-associated Ps. by inserting the nucleic acids into a host cell and culturing the cell to express the proteins. N and P can be used in the prevention, diagnosis and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204
                                             Nucleic acids encoding lipid
Physcomitrella patens useful
                                                                                                                                                                                                                                     22-NOV-2000;
                                                                                                                                                                                                                                                                                                 WO200138484-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Moss; Physcomitrella patens; lipid metabolism related protein; LMRP; lipid biosynthesis; lipid modification; lipid degradation; cofactor; lipid biosynthesis; lipid modification; lipid degradation; cofactor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAG80899 standard; Protein; 181 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     N.B. Pages 666 to 682 and page 7053 of the sequence listing were missing at time of publication, meaning no sequences are present for SEQ ID NO:1027 to 1052, 7921 and 7922.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        the proteins are collectively known as colon cancer antigens. The colo cancer antigens have cytostatic activity and can be used in gene therapy and vaccine production. N and P may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate P
                                                                                                                           Frank M,
                                                                                                                                          Lerchl J,
                                                                                                                                                                         (BADI ) BASF PLANT SCI GMBH
                                                                                                                                                                                                         25-NOV-1999;
                                                                                                                                                                                                                                                                                                                                Physcomitrella patens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Lipid degradation protein protein sequence #14.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAG80899;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cancer-associated nucleic acid molecules (N) and proteins (P),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              77 afxg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity
nes 4; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   12
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAB77789 represent sequences used in the exemplification of the
                                                                                            2001-367669/38
                                                                                                                          Freund
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                          Renz A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       172 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                        2000WO-EP11615
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                         99WO-EP09108
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                                                                                                                                                                                                                                                                                                                                                               torage
                                                                                                                                          Ehrhardt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        37.5%;
                                                                                                                          Duwenig
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0;
                                             metabolism
to produce
                                                                                                                           Œ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 3;
Pred. No.
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                                                                                                                          Reindl A,
Schmidt R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .
1
                                             related proteins fine chemicals in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         22; I
.2e+03;
                                                                                                                          Cirpus
, Reski
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                                                                                                                             מי מ
                                                                                                                                            Bischoff
                                                               from
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Claim 31; Page 116; 120pp; English organisms, particularly polyunsaturated

fatty acids

in oilseed plants in modified

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AAG83349
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 Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention describes isolated nucleic acid sequences which encode lipid metabolism related proteins (LMRP). The LMRP nucleic acids can be used to modify lipids and fatty acids, cofactors and enzymes in microorganisms and plants, particularly to produce polyunsaturated fatty acids, and are especially useful in oilseed plants. The nucleic acids may also confer biotic or abiotic stress tolerance, particularly to maize, wheat, rye, oat, triticale, rice, barley, soybean, peanut, cotton, rapeseed, canola, manihot, pepper, sunflower, tagetes, potato, tobacco, eggplant, tomato, Vicia species, pea, alfalfa, coffee, cacao, tea, Salix species, oil palm, coconut, perennial grasses and forage crops. AAH50878 to AAH50888 to AAH50888 to AAH50968 represents LMRP nucleotide sequences, and AAG80843 to AAG80928 represent LMRP protein sequences,
                           The present invention provides the protein and coding sequences of a number of moss lipid metabolism related proteins (LMRPs). The moss physicomitrella patens is one of the few plants able to produce polyunsaturated fatty acids, and the sequences can be used to create transgenic plants also capable of producing them. They can also be used to identify the presence of P. patens and in the production of fine chemicals. The present sequence is one of the proteins of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAC83349 standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     given in the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                    31-MAY-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          P patens lipid metabolism related protein #67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        06-SEP-2001 (first entry)
Sequence
                                                                                                                                                   Claim 31; Page 106; 113pp; English.
                                                                                                                                                                                New isolated nucleic acid molecule encoding Lipid Metabolism Related Proteins useful in the production of fine chemicals - \,
                                                                                                                                                                                                                                                                          Lerchl J,
                                                                                                                                                                                                                                                                                                                                                                                                                                   WO200138541-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Physcomitrella patens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Moss; LMRP; lipid metabolism related protein; polyunsaturated fatty acid; fine chemical; transgenic plant.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAG83349;
                                                                                                                                                                                                                               WPI; 2001-381293/40.
                                                                                                                                                                                                                                                            Frank M,
                                                                                                                                                                                                                                                                                                                                       25-NOV-1999;
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                                                                                                                                                                                                                                                                                                       (BADI ) BASF PLANT SCI GMBH.
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                                                                                                                                                                                                                                                          Freund A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 æ
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 181
                                                                                                                                                                                                                                                                             Renz A,
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                                                                                                                                                                                                                                                                                                                                         99WO-EP09108
                                                                                                                                                                                                                                                                                                                                                                      99WO-EP09108
                                                                                                                                                                                                                                                          Ehrhardt T,
Duwenig E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         37.5%; P1
100.0%; P1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         37.5%; Score 3; 1
100.0%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181
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                                                                                                                                                                                                                                                            Reindl A,
Schmidt R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 22; Lo. 1.2e+03;
                                                                                                                                                                                                                                                            Cirpus
Reski
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                                                                                                                                                                                                                                                                            Bischoff F;
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AAM43545
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30-JUN-2000;
07-JUL-2000;
07-JUL-2000;
11-JUL-2000;
                                                                                                                                                                                                                                                                                                                    24-FEB-2000;
02-MAR-2000;
16-MAR-2000;
                                                                                                                                                        14-AUG-2000;
14-AUG-2000;
14-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            neuroprotective; antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer; vulnerary; anticonvulsant; antibacterial;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; antiarthritic; antirheumatic; antiproliferative; vasotropic; cerebroprotective; nootropic; neuroprotective; antibacterial; virucide; fungicide; ophthalmological; cytostatic; immunosuppressive; nootropic; neuroprotective; antialiergic; hepatotropic; antidiabetic;
                                                                                                                                                                                                                                                                                                                                                                                                                      WO200155308-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      antiparasitic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human polypeptide SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              22-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAM43545;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAM43545 standard; Protein; 186 AA.
                                                                                                                                                                                                                                                                            07-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                            31-JAN-2000;
                                                                                                                                                                                                                                                                                                                                                                               17-JAN-2001; 2001WO-US01309
                                                                                                                                                                                                                                                                                                                                                                                                  02-AUG-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens.
                                                                                                                                     14-AUG-2000;
14-AUG-2000;
                                                                                                                                                                                                                                                                                        18-APR-2000;
19-MAY-2000;
                                                                                    14-AUG-2000;
14-AUG-2000;
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2000US-0205515.
2000US-0209467.
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2000US-0224518
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2000US-0218290
         2000US-0227009
2000US-0228924
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2000US-0227182.
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2000US-0225213.
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2000US-0215135
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           cardiant; gene therapy; cancer; disorder; neurological disease;
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Pred. No.
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2000US-0229343 2000US-0229344 2000US-0229345 2000US-0229509 2000US-0229513 2000US-0230437 2000US-0230438 2000US-0231243 2000US-0231243 2000US-0231243

2000US-0232080. 2000US-0232081. 2000US-0231968. 2000US-0232397. 2000US-0232398. 2000US-0232398. 2000US-0232399.

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Matches 4
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17-NOV-2000;
17-NOV-2000;
01-DEC-2000;
01-DEC-2000;
05-DEC-2000;
05-DEC-2000;
06-DEC-2000;
06-DEC-2000;
08-DEC-2000;
08-DEC-2000;
08-DEC-2000;
08-DEC-2000;
08-DEC-2000;
AAE04176 standard; Protein; 392 AA
                                                                                                                                                                                                                                                                                                                                              The invention relates to human polynucleotides (AAI63803-AAI64012) and the encoded proteins (AAM43497-AAM43660) useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. The genes were isolated from a range of human tissues disclosed in the specification. The nucleic acids, proteins, antibodies and (ant)agonists are useful in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and ovarian cancer and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune disorders e.g. Addison's disease, allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, crohn's disease, multiple sclerosis, rheumatoid archritis and ulcerative
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05-DEC-2000;
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08-DEC-2000;
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17-NOV-2000;
17-NOV-2000;
17-NOV-2000;
17-NOV-2000;
                                                                                                                                                                                                                                         colitis; (c) cardiovascular disorders such as myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f) infectious diseases such as viral, bacterial, fungal and parasitic infections.

Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New isolated nucleic acids and polypeptides, useful for treating and/or preventing human diseases and disorders \frac{1}{2}
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                                                                         73 afxg
                                                                                                       5 afxg
                                                                                                                                   h 37.5%; Score 3; DB 22; Ly Similarity 100.0%; Pred. No. 1.2e+03; 4; Conservative 0; Mismatches 0;
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2000US-0249244.
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2000US-0249265.
2000US-0249265.
2000US-0249269.
2000US-024929.
2000US-025160.
2000US-025160.
2000US-025160.
2000US-0251868.
2000US-0251868.
2000US-0251869.
2000US-0251869.
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2000US-0233065. 2000US-0234223. 2000US-0234274. 2000US-0234997.

2000US-0232401. 2000US-0233063.

2000US-0236369 2000US-0236370 2000US-0236802 2000US-0237037 2000US-0237038 2000US-0237039 2000US-0237040 2000US-0237040 2000US-0239937 2000US-0239937 2000US-024960 2000US-0241785 2000US-0241785 2000US-0241785

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11-SEP-2000
21-SEP-2000
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20-OCT-2000
02-OCT-2000
03-NOV-2000
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2000US-0241808 2000US-0241809 2000US-0244617 2000US-0246474 2000US-0246476 2000US-0246476 2000US-0246476 2000US-0246524 2000US-0246524 2000US-0246524 2000US-0246524 2000US-0246526 2000US-0246526 2000US-0246527 2000US-0246527 2000US-0246527 2000US-0246527 2000US-0246610 2000US-0246611 2000US-0246611 2000US-0246613 2000US-0246613 2000US-0249208 2000US-0249211 2000US-0249211 2000US-0249211

foetal abnormality; developmental abnormality; haematopoietic disorder; immune system disorder; AIDS; autoimmune disease; rheumatoid arthritts; Parkinson's disease; cognitive disorder; schizophrenia; skin disorder; psoriasis; sepsis; diabetes; atherosclerosis; cardiovascular disorder; inflammation; neurological disorder; Alzheimer's disease; food additive;

Human

secreted

protein;

tein; proliferative disorder; cancer; tumour; asthma developmental abnormality; haematopoietic disorder;

gene 2 encoded secreted protein fragment,

SEQ

ID NO:167

09-AUG-2001 AAE04176;

(first entry)

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The secreted proteins and their genes are useful for preventing, treating or ameliorating medical conditions, e.g., by protein or gene therapy.

CC Pathological conditions can be diagnosed by determining the amount of the new protein in a sample or by determining the presence of mutations in the new genes. Specific uses are described for each of the 24 genes. CC based on the tissues in which they are most highly expressed, and include cdeveloping products for the diagnosis or treatment of proliferative cc disorders, cancer, tumours, foetal and developmental abnormalities, autoimmune cdisorders, chicage, classes of the immune system, AIDS, autoimmune cdisorders (e.g., rheumatoid arthritis), inflammation, allergies, cc neurological disorders (e.g., Alzheimer's disease, Parkinson's disease), cc cognitive disorders (e.g., Alzheimer's disease, Parkinson's disease), cc prognancy-related disorders, atheroseterosis, cardiovascular disorders, can also be used to aid wound healing and epithelial cell conforteration, to prevent skin aging due to sunburn, to maintain organs can allergies and parkinson and the company tissues.
                                                                                                                                                                                                                                                                                                         AAD08404-AAD08478 represent cDNAs corresponding to 24 human secreted protein genes, and AAE04100-AAE004170 represent the proteins they encode AAE04172-AAE04197 represent human secreted protein fragments or variants.
                                                                                                                                                                                                                                                                                                                                                                                                                                 Nucleic acids encoding 24 human secreted polypeptides, useful for preventing, diagnosing and/or treating e.g. Gaucher's disease, Alzheimer's disease, Scimitar syndrome, Creutzfeldt-Jacob disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           12-NOV-1999; 99US-0164825.
03-AUG-2000; 2000US-0222904.
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pregnancy-related disorder; endocrine disorder; infection; wound healing;
cell culture; chemotaxis; vulnerary; binding partner identification;
proliferation, to preve
before transplantation,
                                                                                                                                                                                                                                                                                                                                                                                Disclosure; Page 10;
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L-amino acids"
388
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L-amino acids"
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supporting cell
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Nucleic acids encoding

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polypeptides, useful

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RESULT :
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                                                                                                                                                                                                                                                                                                                                                                                                                              psoriasis; sepsis; diabetes; atherosclerosis; cardiovascular disorder; inflammation; neurological disorder; Alzheimer's disease; food additive; anglogenic disorder; kidney disorder; gastrointestinal disorder; allergy; pregnancy-related disorder; endocrine disorder; infection; wound healing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis; Parkinson's disease; cognitive disorder; schizophrenia; skin disorder;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   to regenerate tissues, to identify their cognate ligands or binding partners, and in chemotaxis, and can be used as a food additive or
                        N-PSDB;
                                                            Ruben
                                                                                                            12-NOV-1999;
03-AUG-2000;
                                                                                                                                                 08-NOV-2000; 2000WO-US30629
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        secreted protein; proliferative disorder; cancer; tumour; asthma; abnormality; developmental abnormality; haematopoietic disorder;
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                                                            Komatsoulis
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disorder; AIDS; autoimmune disease; rheumatoid
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27..414
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1.9e+03;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cognitive disorders, schizophrenia, asthma, skin disorders (e.g., psoriasis), sepsis, diabetes, atherosclerosis, cardiovascular disorders, angiogenic disorders, kidney disorders, gastrointestinal disorders, pregnancy-related disorders, endocrine disorders, and infections. The proteins can also be used to aid wound healing and epithelial cell proliferation, to prevent skin aging due to sumburn, to maintain organs before transplantation, for supporting cell culture of primary tissues, to regenerate tissues, to identify their cognate ligands or binding partners, and in chemotaxis, and can be used as a food additive or
                                                                                                                                                                                                                                                                                        rheumatoid arthritis; hyperproliferative disorder; cardiac arrest; cardiovascular disorder; cerebrovascular disorder; cerebral ischae angiogenesis; nervous system disorder; Alzheimer's disease; infect
                                                                           WO200061629-A1
                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            preservative to modify storage properties. Antibodies specific for a protein of the invention can be used in alleviating symptoms associated with the disorders mentioned above, and in diagnostic immunoassays e.g., radioimmunoassay or enzyme linked immunosorbent assay (ELISA).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      disorders, cancer, tumours, foetal and developmental abnormalities, haematopoietic disorders, diseases of the immune system, AIDS, autoimmune diseases (e.g., rheumatoid arthritis), inflammation, allergies, neurological disorders (e.g., Alzheimer's disease, Parkinson's disease),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The secreted proteins and their genes are useful for preventing, treating or ameliorating medical conditions, e.g., by protein or gene therapy. Pathological conditions can be diagnosed by determining the amount of the new protein in a sample or by determining the presence of mutations in the new genes. Specific uses are described for each of the 24 genes, based on the tissues in which they are most highly expressed, and include developing products for the diagnosis or treatment of proliferative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AADO8404-AAD08478 represent cDNAs corresponding to 24 human secreted protein genes, and AAE04100-AAE004170 represent the proteins they encode. AAE04172-AAE04197 represent human secreted protein fragments or variants.
                                                                                                                                                                                                                                                                                                                                                                                                  cerebroprotective; nootropic; neuroprotective; antibacterial; virucide;
fungicide; ophthalmological; gene therapy; autoimmune disease; neoplasm;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; secreted protein; diagnosis; immunosuppressive; antiarthritic;
antirheumatic; antiproliferative; cytostatic; cardiant; vasotropic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAB63190 standard; Protein; 503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  preventing, diagnosing and/or treating e.g. Gaucher's disease, Alzheimer's disease, Scimitar syndrome, Creutzfeldt-Jacob disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human secreted protein sequence encoded by gene 5 SEQ ID NO:116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           26-MAR-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 11; Page 480-482;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             408 afxg 411
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5 afxg 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             present sequence represents a human secreted protein of
                                                                                                                                                                                                                       additive;
                                                                                                                                                                                                                                                      disorder; corneal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                mellitus and multiple sclerosis - ·
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       414 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                   preservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       37.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               532pp; English.
                                                                                                                                                                                                                                                      infection;
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Pred. No.
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o. 2e+03;
                                                                                                                                                                                                                                                      healing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
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                                                                                                                                                                                                                                                                                           cerebral ischaemia;
disease; infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ischaemia, angiogenesis, nervous system disorders e.g. Alzheimer's disease, infections caused by bacteria, viruses and fungi and ocular disorders e.g. corneal infection. The polypeptides can also be used to aid wound healing and epithelial cell proliferation, to prevent skin aging due to sunburn, to maintain organs before transplantation, for supporting cell culture of primary tissues, to regenerate tissues and in chemotaxis. The polypeptides can also be used as a food additive or preservative to increase or decrease storage capabilities. AAF22364 to
                                                antioxidant; oxidation; innibilor; vicumin. 2, ... coenzyme Q; vitamin A; beta-carotene; superoxidase dismutase; coenzyme Q; vitamin A; beta-carotene; superoxidase dismutase; coenzyme Q; vicial oxidation; foodstuff; drugs; health food; toiletries; c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      mice, rabbits, goats, horses, cats, dogs, chickens or sheep. They a also used in diagnosing a pathological condition or susceptibility pathological condition. Disorders which are diagnosed or treated in autoimmune diseases e.g. rheumatoid arthritis, hyperproliferative disorders e.g. neoplasms of the breast or liver, cardiovascular disorders e.g. cardiac arrest, cerebrovascular disorders e.g. cardiac arrest, cerebrovascular disorders e.g. cereb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            antirheumatic; antiproliferative; cytostatic; cardiant; vasotropic; cerebroprotective; nootropic; neuroprotective; antibacterial; virucide; cerebroprotective; nootropic; neuroprotective; antipacterial; virucide; fungicide; and ophthalmological. The polynucleotides and proteins can be used to prevent, treat or ameliorate a medical condition in e.g. humans,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           and polypeptides homologous to them. Human secreted proteins have activities based on the tissues and cells the genes are expressed in. Examples of activities include: immunosuppressive; antiarthritic;
                                                                                                                                                                                                                                                                                AAR48523 standard; peptide;
                                                                                                                   Decomposition; lactoferrin;
                                                                                                                                                          Lactoferrin derived peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAF22373 to AAF22421 encode the human secreted proteins given in AAB63134 to AAB63182. AAB63183 to AAB63231 represent more human secreted proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Page 489-491; 533pp; English.
                                                                                                                                                                                                  10-AUG-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (HUMA-) HUMAN GENOME SCI INC (ROSE/) ROSEN C A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             09-APR-1999; 99US-0128694.
20-JAN-2000; 2000US-0176931.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      06-APR-2000; 2000WO-US09071
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Isolated nucleic acid molecule encoding a human
                                                                                                                                                                                                                                                                                                                                                                                  |||||
49 afxg 52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local
                                                                                                                                                                                                                                                                                                                                                                                                                        5 afxg 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity 4; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        preventing, treating or ameliorating
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              37.5%; Score 3; DB ilarity 100.0%; Pred. No. 2. Conservative 0; Mismatches
                                                                                                                                                                                                (first entry)
                                                                                            n; lactoferrin; digestion; enzyme; pepsin; tryps oxidation; inhibitor; vitamin E; ascorbic acid
                                                                                                                                                             #17.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 21; LC
No. 2.2e+03;
0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           the exemplification of
                                                                                                                     trypsin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0;
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RESULT 19
AAR85069
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Best Local Similarity
Thes 2; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The sequences given in AAR48507-37 are peptides derived by the decomposition of luctoferrin, pref. by digestion with an enzyme, e pepsin or trypsin. These peptides may be used in an antioxidant composition which may also contain an oxidation inhibitor such as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 vitamin E, ascorbic acid, vitamin A, beta-carotene, superoxidase dismutase or coenzyme Q. The antioxidant prevents lipid oxidation in foodstuffs, drugs, health foods, toiletries and cosmetics.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 3; Page 32; 47pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Antioxidant peptide lackoferrin decomposition product - prevents oxidation of lipid(s) in foodstuffs and drugs without affecting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1994-065650/08
        Claim 2; Page 2; 6pp; Japanese
                                                                                                                                                                            JP07278185-A
                                                                                                                                                                                                                                                     Calcium ion channel blocking peptide fragment #2.
                                                                                                                                                                                                                                                                           13-JUN-1996
                                                                                                                                                                                                                                                                                                  AAR85069;
                                                                                                                                                                                                                                                                                                                       AAR85069 standard; peptide; 3 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               their taste
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bellamy WR,
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                                                                WPI; 1995-400979/51.
                                                                                                          08-APR-1994;
                                                                                                                               08-APR-1994;
                                                                                                                                                                                               Synthetic
                                                                                                                                                                                                                                 Calcium ion channel;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (MORG ) MORINAGA MILK IND CO
                                                                                     (FARH ) HOECHST JAPAN KK
                                                                                                                                                                                                                     therapy.
                               hypotensive agent
                                         Peptide having calcium channel blocking activity - useful
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Fukuwatari Y,
                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      92JP-0211335
                                                                                                          94JP-0070579
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          93WO-JP01090
                                                                                                                               94JP-0070579
                                                                                                                                                                                                                                                                                                                                                                                                                      25.0%; Score 2; DB
100.0%; Pred. No. 4.
Live 0; Mismatches
                                                                                                                                                                                                                                blocking peptide; hypotensive agent;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Kawase K,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Shimamura S;
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RESULT 21
AAR98547
ID AAR985
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AC AAR985
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AARB461
IID AARB4
XX AARB4
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                                                 AAR98547 standard; Peptide; 3 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present peptide is a bovine lactoferrin derived, angina pectoris treatative agent. It has low toxicity and side eff is heat resistant, water soluble and stable in an aq. soln.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-APR-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bovine lactoferrin; angina pectoris; treatment; low no side effects; heat resistance; water solubility; aqueous solution; preservative free.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAR84691;
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                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                        also
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 1; Page 10; 12pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Peptide for treatment of heat resistant and water
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1995-400916/51.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-APR-1994;
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NO. 4.3e+05;
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an aq. soln..
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAR98531-54 are peptides used in an anti-ulcer agent. The in toxicity, is heat-resistant and stable in aqueous soln.. administered orally and be produced in large amounts.
                    water soluble
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim
                                                                                                                                                                                                    17-MAY-1994;
                                                                                                                                                                                                                                             17-MAY-1994;
                                                                                                                                                                                                                                                                                        28-NOV-1995
                                                                                                                                                                                                                                                                                                                                                                             Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                      thermostable;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Lactoferrin derived peptide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAR90601;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1996-318857/32
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Page 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ω
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                      antitumour; therapy; tumour; parenteral administration;
; cytotoxic; antibacterial.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                low toxicity; stable; heat-resistant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   peptide;
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4.3e+05;
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deleterious,

e.g. microbial

proteins can be used against other diseases where an immune response is

infection,

tumours

or

autoimmune

disease

epitopes and to

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RESULT
AAW76946
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Best Local
                     This sequence is an epitope used in the construction of a novel fusion immunoglobulin heavy chain (1gH) protein with a mammalian, especially human. IgH chain fused in frame at its N-terminus to one or more human immune deficiency virus (HIV) gpl20 epitopes. Fusion Ig proteins and/or transfected cells are used to tolerise subjects to gpl20 epitopes and to maintain this tolerance, particularly for treatment of HIV infection, optionally together with other therapeutic/prophylactic agents such as vaccines, chemotherapeutic agents and immune response modifiers. Such
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       numan immune deficiency virus; HTV; tolerance; treatment; therapy; prophylaxis; vaccine; chemotherapy; immune response; modifier; tumour; microbial infection; autoimmune disease; antibody; apoptosis; antiviral T cell immunity.
                                                                                                                                                                                         New fusion immunoglobulin heavy chain including gpl20 epitopes and related complete antibodies - DNA, vectors and transformed cells, used to induce tolerance to the epitopes for treatment of human immune deficiency virus infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAR90585-R90613 represent lactoferrin derived peptides. These sequences he used as antitumour agents for parenteral administration. The sequences are thermally stable, water soluble and stable in water. These peptide sequences are only cytotoxic to tumour cells. No administration of these sequences results in few side effects. No antiseptic is required for administration due to the antibacterial of the peptide. Drugs made from these peptides can be rapidly
                                                                                                                                                             Disclosure; Page 40; 154pp; English
                                                                                                                                                                                                                                                                                                 Scott D,
                                                                                                                                                                                                                                                                                                                                                             13-FEB-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Page 8;
                                                                                                                                                                                                                                                                                                 Zambidis E;
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100.0%;
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Pred. No.
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                         AAW56171-248 represent anti-inflammatory tripeptides of the invention.

They are derived from the formulae:

Xaa-Glu-Arg, Arg-Glu-Xaa, Xaa-Arg-Glu, or Glu-arg-Xaa, where

Xaa-Glu-Arg, Arg-Glu-Xaa, Xaa-Arg-Glu, or Glu-arg-Xaa, where

CX Xaa-any amino acid residue.

CYCLic derivatives of the peptides also function as anti-inflammatory

agents. The peptides can be covalently linked to one another either

C directly or through a spacer. The peptides and their derivatives have

macrophage inhibitory and T-cell inhibitory activity and thus,

anti-inflammatory activity. The peptides and compositions have

anti-inflammatory activity, i.e. inhibitory effects against a cellular and

humoral lammune response, including a response not associated with

inflammation. The peptides also inhibit the ability of macrophages and

T-cells to adhere to extracellular matrix components and fibronectin, as

well as up-regulated fas receptor expression in T-cells. They can be

used to inhibit unwanted immune reaction and inflammation.
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03-SEP-1996;
20-NOV-1996;
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                                                                                                                                                                                                                                                                                                                     Anti-inflammatory peptides and derivatives - used for treating, e.g. arthritis, ulcerative colitis, auto-immune disease, allergy asthma, shock, HIV infection, transplant rejection or Alzheimer's disease
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                                                                                                                                                                                                                                                                                                                                                                                                                         Beserman P,
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pred. No. 4.3e+05;
Pred. No. 9.3e+05;
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Perfect score:
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  Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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2: /cgn2_6/ptodata/2,

3: /cgn2_6/ptodata/2,

4: /cgn2_6/ptodata/2,

5: /cgn2_6/ptodata/2,

6: /cgn2_6/ptodata/2,
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length: 2000000000
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January 14, 2002, 07:57:31;
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Copyright (c) 1993 - 2000 Comp
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/cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
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US-08-955-636-7
US-08-965-223-302
US-08-165-545-8
US-08-213-897A-13
US-08-213-897A-13
US-08-213-897A-14
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US-08-935-886-1
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16,	Sequence 46, Appl	e 63,	Sequence 4, Appli	Sequence 8, Appli	Sequence 8, Appli	Sequence 8, Appli	`	,8	•	•	•	Sequence 4, Appli	Sequence 7, Appli	`	Sequence 20, Appl	•	•		Sequence 11, Appl	Sequence 35, Appl		Sequence 7, Appli

ALIGNMENTS

Application US/08935886

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FILING DATE:

CLASSIFICATION: 800
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/411,640
FILING DATE: 05-APR-1995
APPLICATION NUMBER: PCT/EP93/02790
FILING DATE: 05-OCT-1993
ATTORNEY/AGENT INFORMATION:
NAME: MASS, CLIfford J.
REGISTRATION NUMBER: 30,086
REFERENCE/DOCKET NUMBER: U-010139-3
TELECOMMUNICATION INFORMATION:
TELEPHRONE: (212) 708-1800
INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
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APPLICANT:
APPLICANT:
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APPLICANT:
APPLICANT:
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MEDIUM TYPE: Diskette, 3.5 inch, 14.4
COMPUTER: IBM PC/XT/AT or compatibles
OPERATING SYSTEM: DOS 6.20
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION NUMBER: US/08/935,886
APPLICATION NUMBER: US/08/935,886
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TITLE OF INVENTION: Coding Therefor
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                                                         TELEPHONE:
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Sela-Buurlage, Marianne B.
Bres-Vloemans, Alexandra A.
Ponstein, Anne S.
Apothaker-de Groot, Marion
Cornelissen, Bernardus J. C.
VENTION: Autifungal Chitin Binding Proteins
                                                         (212) 708-1800
(212) 246-8959
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Patent No. 5863724
GENERAL INFORMATION:
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                                                                                                                                                                                                                       TELEFAX: 215-568-3439 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Joseph Bryan, Lydia Aguilar Bryan, Daniel Nelson, Pamela APPLICANT: Thomas, Gilbert Cote, and Robert Gagel TITLE OF INVENTION: Sequence Encoding Mammalian Sulfonylurea Receptor
                                                                                                                               MOLECULE TYPE: protein HYPOTHETICAL: NO
                                                                                                                                                                                        SEQUENCE CHARACTERISTICS:
LENGTH: 24 amino acids
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CORRESPONDENCE ADDRESS:
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HYPOTHETICAL:
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                                                                                                                                                                TOPOLOGY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STREET: One Liberty CITY: Philadelphia
                                                                                                                                                                                                                                                                                REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                           NAME: Beardell, Lor
REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz ADDRESSEE: No. 5863724ris
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                           Score 3; DB 2; Pred. No. 55; 0; Mismatches
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US-08-488-546A-34
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                                                                        APPLICANT: Joseph Bryan, Lydia Aguilar Bryan, Daniel Nelson, Pamela APPLICANT: Thomas, Gilbert Cote, and Robert Gagel TITLE OF INVENTION: Sequence Encoding Mammalian Sulfonylurea Receptoratent No. 6054313

NUMBER OF SEQUENCES: 49
                                                                                                                                                                  Sequence 34, Application US/08488546A Patent No. 6054313 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 34, Patent No. 6
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Best Local Similarity
Matches 4; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION FOR SEQ ID NO:
                                                      CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MOLECULE TYPE: P
HYPOTHETICAL: NO
ANTI-SENSE: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: Patentin Rel
CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Joseph Bryan, Lydia Aguilar Bryan, Daniel Nelson TITLE OF INVENTION: Sequence Encoding Mammalian Sulfonylurea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: FILING DATE: 07-JUN CLASSIFICATION: 800
ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz ADDRESSEE: No. 6054313ris STREET: One Liberty Place 46th. Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REGISTRATION NUMBER: 34, REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
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STREET: One Liberty Place 46th. Floor
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     linear
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N: 800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 protein
                                                                                                                                                                                                                                                                                                                                                                           37.5%; Score 3;
100.0%; Pred. No
tive 0; Mismat
                                                                                                               Sequence Encoding Mammalian Sulfonylurea Receptor
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                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                  DB 3;
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COMPUTER READABLE FORM:

19103

Philadelphia PA

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RESULT 5
US-08-955-636-17
Sequence 17, Application US/08955636A
Patent No. 6017882
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       Query Match
Best Local Similarity 100.
Conservative
                                                                                                                                                                                                                                                     TITLE OF INVENTION: MODIFIED VITAMIN K-DEPENDENT TITLE OF INVENTION: POLYPEPTIDES FILE REFERENCE: 09531/002001 CURRENT APPLICATION NUMBER: US/08/955,636A CURRENT FILING DATE: 1997-10-23 NUMBER OF SEQ ID NOS: 35 SOFTWARE: FBSTSEQ for Windows Version 3.0 SEQ ID NO 17
                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION: APPLICANT: Nelsestuen,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Local Similarity 100 Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
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TELEFAX: 215-568-3439
INFORMATION FOR SEQ ID NO: 34:
                                                                                                                          NAME/KEY: MOD_RES
LOCATION: (0)...(0)
OTHER INFORMATION: Xaa@gamma carboxyglutamic acid or glutamic acid
                                                                                                                                                                                                      TYPE: PRT
ORGANISM: Bos taurus
                                                                                                                                                                                        FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REGISTRATION NUMBER: 34,293
REFERENCE/DOCKET NUMBER: BY
TELECOMMUNICATION INFORMATION:
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/404,531
FILING DATE: 15-MARCH-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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NAME: Beardell, Lori Y.
REGISTRATION NUMBER: 34,
                                                                                                                                                                                                                                          ENGTH: 45
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TOPOLOGY: linear
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2 rxxaf 6
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                              37.5%; Score 3; DB 3
100.0%; Pred. No. 89;
Live 0; Mismatches
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                                              DB 3;
5. 89;
                                                               Length 45;
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                                    Gaps
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; Sequence 8, Application US/08165545; Patent No. 5424396; GENERAL INFORMATION:
APPLICANT: MAMOORU TOMITA et al.
TITLE OF INVENTION: Antimicrobial
TITLE OF INVENTION: Antimicrobial;
NUMBER OF SEQUENCES: 13
                                                                                                                                                                                                                                                                                                                                                          IDENTIFICATION METHOD: Von Heijne matrix
OTHER INFORMATION: score 7
OTHER INFORMATION: seq SVWLCLLCYFAFP/FQ
US-08-905-223-302
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                                                                                                                            RESULT 7
US-08-165-545-8
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                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: (619) 235-0176
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Edwards, Jean-Baptiste D.
APPLICANT: Duelert, Aymeric
APPLICANT: Lacroix, Bruno
TITLE OF INVENTION: 5' ESTS FOR SECRETED PROTEINS
NUMBER OF SEQUENCES: 503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY: LINEAR MOLECULE TYPE: PROJORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REGISTRATION NUMBER: 29,655
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 235-8550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Israelsen, Ned A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CITY: San Diego
STATE: Californi
                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: sig_peptide LOCATION: -52..-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE TYPE:
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100.0%; F1
     Antimicrobial Peptide and Antimicrobial Agent 13
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; Pred. No.
                                                                                                                                                                                                                                                                         Mismatches
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b. 1.8e+02;
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ATTORNEY/AGENT INFORMATION:
NAME: WALTED M. Cheek, Jr.
REGISTRATION UNUBER: 3,367
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-8850
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS
LENGTH: 3 amino acids
                                                                                                                                                                         PUBLICATION INFORMATION
                                                                                                                                                                                                                                                                                                   POSITION IN GENOME:
CHROMOSOME/SEGMENT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FRAGMENT TYPE:
ORIGINAL SOURCE:
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[MMEDIATE SOURCE:
LIBRARY:
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                               DOCUMENT NUMBER: FILING DATE:
                                                                                                                                                                                        IDENTIFICATION METHOD: OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                 CELL TYPE:
                PUBLICATION DATE:
                                                                                                                                                                                                                                                                      UNITS:
                                                                                                                                                                                                                                                                                        MAP POSITION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: amino acid
STRANDEDNESS: si
RELEVANT RESIDUES IN SEQ ID NO:
                                                                                                              VOLUME:
                                                                                                                           JOURNAL:
                                                                                                                                                          AUTHORS:
                                                                                                                                                                                                                       LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                             TISSUE TYPE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM:
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COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY: U.S.A.
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CITY: Washington
                                                                                                                                                                                                                                          NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INDIVIDUAL ISOLATE:
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805 Fifteenth Street, N.W., #700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       linear
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RESULT
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Best Local Similarity
"~+~hes 2; Conserva
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CLASSIFICATION: 514
INFORMATION FOR SEQ ID NO:
                                                                             INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
                                                                                                                        APPLICATION NUMBER: US/08/213,897;
PRIOR APPLICATION DATA:
APPLICATION UNMBER: US 07/593,867
FILING DATE: 05-OCT-1990
PRIOR APPLICATION DATA:
                                                                                                                                                                                                    SOFTWARE: PatentIn Rel
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES: 1
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                             SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                 APPLICANT:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: Antifungal Peptides NUMBER OF SEQUENCES: 31
COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS: LENGTH: 3 amino acids
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             TYPE: amino acid
STRANDEDNESS: si
                                                                                            APPLICATION NUMBER: US 0 FILING DATE: 10-FEB-1992
TOPOLOGY:
                                                                                                                                                                                                                                     OPERATING SYSTEM:
                                                                                                                                                                                                                                                    COMPUTER:
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nes 2; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STRANDEDNESS:
TOPOLOGY: li
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
                                            LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/08 FILING DATE: 12-SEPT-1994
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2 wr 3
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                                          3 amino acids
                                                                                                                                                                                                                      PatentIn Release #1.0, Version #1.30 (EPO)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25.0%; Score 2; DB 1; Length 3; larity 100.0%; Pred. No. 1.6e+05; Conservative 0; Mismatches 0; Indel:
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linear
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IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
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             single
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100.0%; Pred. No.
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                                                                                                           US 07/833,183
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US-08-256-771-17

: Sequence 17, Application US/08256771

: Patent No. 5656591
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Best Local Similarity
Warches 2; Conserve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; TOPOLOGY: linear; MOLECULE TYPE: peptide US-08-213-897A-14
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                                                                                                                                                                                                                                                                                                                 RESULT 11
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Best Local Similarity 100
Matches 2; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US 0
FILING DATE: 10-FEB-1992
INFORMATION FOR SEO 1D NO: 1
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                            GENERAL INFORMATION:
APPLICANT: Mamoru
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/593,867
FILING DATE: 05-OCT-1990
PRIOR APPLICATION DATA:
                             COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette,
                                                                                                                                           NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wenderoth,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: Protease Mediated Drug Delivery System NUMBER OF SEQUENCES: 18
                                                                                                                                                                                           TITLE OF INVENTION: ANTIMICROBIAL AGENTS AND METHOD FOR TREATING
                                                                                                           STREET: 805 F1ft
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: amino acid
STRANDEDNESS: sir
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                                                                            COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDIUM TYPE: Floppy disk
COMPUTER: IBM Compatible OPERATING SYSTEM: MS-DOS
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                                               U.S.A.
20005
SR PF
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805 Fifteenth Street, N.W., #700
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100.0%; Pred. No. 1.
tive 0; Mismatches
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                                5.25 inch, 500 kb
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Best Local Similarity
""" hes 2; Conserve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-08-470-837-11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 INFORMATION FOR SEQ ID NO:
TELEFAX: 310-445-9031 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL
                            REGISTRATION NUMBER: 34,051
REFERENCE/DOCKET NUMBER: 30630-1US01
TELECOMMUNICATION INFORMATION:
TELECHONE: 310-445-1140
                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                              STREET: LLL COS Angeles CITY: Los Angeles STATE: California
                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Wu, Lingtao
APPLICANT: Cheung, David T.
TITLE OF INVENTION: Transforming Growth Factor B Fusion
TITLE OF INVENTION: and
TITLE OF INVENTION: Their Use in Wound Healing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE/DOCKET NUMBER: TELECOMMUNICATION INFORMATION: TELEPHONE: 202-371-8850
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: July 22, 1994 CLASSIFICATION: 514 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: Wordperfect 5.1 CURRENT APPLICATION DATA:
                                                                               ATTORNEY/AGENT INFORMATION:
NAME: Sharp, Janice A.
REGISTRATION NUMBER: 34,(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: Warren M. Cheek, REGISTRATION NUMBER: 3
                                                                                                                                        CLASSIFICATION:
                                                                                                                                                       APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEFAX:
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                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE:
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11150 Santa Monica Boulevard, Suite 400
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Tuan, Tai-Lan
Wu, Lington
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100.0%; Pr
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; IDENTIFICATION METHOD:
; OTHER INFORMATION: /n:
; OTHER INFORMATION: Pe
US-08-381-984-17
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; Sequence 17, Application US/08381984
; Patent No. 5804555
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Best Local :
                Matches
                                         Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION UMBER: US/08/381
FILING DATE: April 11, 1995
CLASSIFICATION: 252
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
                                                                                                                                                                                                                                                      INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
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MEDIUM TYPE: Diskette,
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                                                                                                                                                                       FEATURE:
                                                                                                                                                                                     MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                               TELECOMMUNICATION INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                    ATTORNEY/AGENT INFORMATION:
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                                                                                                                                           NAME/KEY:
LOCATION:
              Local Similarity
nes 2; Conserv
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CITY: Washington
                                                                                                                                                                                                   TOPOLOGY:
                                                                                                                                                                                                                STRANDEDNESS:
                                                                                                                                                                                                                               TYPE:
                                                                                                                                                                                                                                                                                                   TELEFAX:
                                                                                                                                                                                                                                                                                                                TELEPHONE:
                                                                                                                                                                                                                                                                                                                                           REGISTRATION NUMBER: 33,367
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OPERATING SYSTEM:
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                                                                                                                                                                                                                                           LENGTH:
                                                                                                                                                                                                                                                                                                                                                                        NAME: Warren M. Cheek,
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805 Fifteenth Street, N.W., #700
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                Conservative
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100.0%; Pr
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100.0%; Pred. No.
tive 0; Mismatc
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peptides including the specified peptide as a fragment therec
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                            Score 2; ; Pred. No.
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                Mismatches
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o. 1.6e+05;
                             DB 1; Le
              0;
                                       Length 3;
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              Indels
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             Gaps
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             0;
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Qγ
                                                                                             ; MOLECULE TYPE: US-08-767-903-27
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                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 15
US-08-767-903-27
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-08-871-163-27; Sequence 27, A
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Patent No. 6020312
GENERAL INFORMATION:
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Patent No. 5885782
                            Matches
                                      Query Match
Best Local
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Best Local :
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SEQUENCE CHARACTERISTICS:
LENGTH: 3 amino acids
                                                                                                                                                                                 CLASSIFICATION: 514
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/871,163
                                                                                                                                                                                                                                                      SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: NUMBER OF SEQUENCES:
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MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
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                                                                                                                         STRANDEDNESS:
TOPOLOGY: Li
                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                         TYPE:
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                                                                                                                                                                                                                                           APPLICATION NUMBER:
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nes 2; Conserv
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                         25.0%; Solitarity 100.0%; 1 Conservative 0;
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                         Score 2; DB;; Pred. No. 1.0; Mismatches
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ATTORNEY/AGENT INFORMATION:
NAME: Misrock, S. Leslie
REGISTRATION NUMBER: 18,872
REFERENCE/DOCKET NUMBER: 6526
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212 790-9090
TELEPAX: 212 8698864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1:
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Best Local Similarity 10.
Thehes 2; Conservative
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Patent No. 5250414
GENERAL INFORMATION:
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SEQUENCE CHARACTERISTICS:
LENGTH: 3 amino acids
                                                                                                                                                        SOFTWARE: PATCHTIN ROLOG
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/C
FILING DATE: 19910624
CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/11724
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION:
NUMBER OF SEQUENCES:
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TOPOLOGY: linear
MOLECULE TYPE: peptide
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                                                                                                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                              Pennie & Edmonds
                                                                                                                                                                                                                                                                                   Floppy disk
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100.0%; Pred. No. 1.
Live 0; Mismatches
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US-07-719-692A-2
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Best Local Similarity
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                                                                                                                                                                                               TELEPHONE: 212 790-9090
TELEPA: 212 8698864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
                                                                                                                                                                           SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                            REFERENCE/DOCKET NUMBER: 65
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212 790-9090
                                                                                                                                                                                                                                                                                        ATTORNEY/AGENT INFORMATION:
NAME: Misrock, S. Leslie
REGISTRATION NUMBER: 18,8
                                                                                                                                                                                                                                                                                                                                                       CURRENT APPLICATION DATA:
APPLICATION NUMBER: US,
FILING DATE: 19910624
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                                                                                                      MOLECULE TYPE:
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                                                                                                                                                                                                                                                                                                                                                                                                     MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
                           OTHER INFORMATION: OTHER INFORMATION:
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LOCATION: 4
OTHER INFORMATION: /note-
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                                                          NAME/KEY: Modified-site LOCATION: 1
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STRANDEDNESS: Sir
                                                                                                                      TOPOLOGY:
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NAME/KEY:
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AMINO ACID
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Y: U.S.A.
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1155 Avenue of the Americas
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Modified-site
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Neurite Growth Regulatory Factors
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                         /note= "carbobenzoxy derivatized
end"
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US-07-719-692A-3
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                                                Matches
                                                                      Query Match
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/719,692A
                                                                                                                                                                                                                                                                                                                  FILING DATE: 19910624
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Misrock, S. Leslie
REGISTRATION NUMBER: 18,6
                                                                                                                                                           FEATURE:
                                                                                                                                                                        MOLECULE TYPE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Schwab, TITLE OF INVENTION:
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ZIP: 10036
                                                                                                                      LOCATION: 4
OTHER INFORMATION: /note= "amide at carboxy-terminus"
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STATE: New York
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OTHER INFORMATION:
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                                                Local Similarity
es 2; Conserv
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100.0%; Pr
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Neurite Growth Regulatory Factors
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with Iodine-125."
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US-07-805-727-8
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US-08-165-545-7
                                                                                                                                                                                                     Sequence 7, Application US/08165545 Patent No. 5424396 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 8, Applic Patent No. 5424186
                                                                                                                                                                                                                                                                                                                                                                                 Matches
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INFORMATION FOR SEQ ID NO:
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APPLICANT:
APPLICANT:
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
COMPUTER READABLE FORM: MEDIUM TYPE: Diskett
                                                                                                                                                            TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE/DOCKET NUMBER: 11
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOFTWARE: PatentIn Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTORNEY/AGENT INFORMATION: NAME: No. 5424186viel, V
                                                                                                                            CORRESPONDENCE ADDRESS
                                                                                                                                                                                           APPLICANT:
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                                                                                                                                             NUMBER OF SEQUENCES:
                               COUNTRY: U.S.A. ZIP: 20005
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                                                                STATE:
                                                                           CITY: Washington
                                                                                             STREET:
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                                                                                             E: Wenderoth, Lind & Ponack
805 Fifteenth Street, N.W.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         One Market Plaza, Steuart Tower, Suite 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4 amino acids
                                                                                                                                           Mamoru TOMITA et al.
VENTION: Antimicrobial Peptide and
VENTION: Antimicrobial Agent
EQUENCES: 13
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Read, J. Leighton
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 Diskette, 5.25 inch, 500 kb
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                                                                                               N.W., #700
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o. 1.6e+05;
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COMPUTER: IBM Compatible OPERATING SYSTEM: MS-DOS

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                                                                                                                US-08-165-545-7
                                                            Query Match
Best Local :
                                                 Matches
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NAME: Warren M. Check, Jr.
REGISTRATION NUMBER: 33,367
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-8850
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ANTI-SENSE:
FRAGMENT TYPE:
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                          POSITION IN GENOME: CHROMOSOME/SEGMENT: MAP POSITION:
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IMMEDIATE SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: DisplayWrite CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                    IDENTIFICATION METHOD:
OTHER INFORMATION:
PUBLICATION INFORMATION:
AUTHORS:
                                                                                                                                                                                                                                                                                                                                   FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HYPOTHETICAL:
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                                                                                                                                                                                                                                                                                                                                                                                               LIBRARY:
CLONE:
                                                                                                                                                                                                                                                                                                        NAME/KEY:
LOCATION:
                                                            Local Similarity
                                                                                                                         FILING DATE:
PUBLICATION DATE:
RELEVANT RESIDUES IN SEQ ID
                                                                                                                                                                                                                                                                                                                                              UNITS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TISSUE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM:
                                                                                                                                                               DOCUMENT NUMBER:
                                                                                                                                                                             DATE:
                                                                                                                                                                                         PAGES:
                                                                                                                                                                                                                 VOLUME:
                                                                                                                                                                                                                             JOURNAL:
                                                                                                                                                                                                                                            TITLE:
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                                                Conservative
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                                                          25.0%;
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                                                Mismatches
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RESULT 23
US-08-127-904-8
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Best Local Similarity
"~+~hes 2; Conserv
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                                      GENERAL INFORMATION:
APPLICANT: Eugene Roberts
TITLE OF INVENTION: Method
TITLE OF INVENTION: Amnesti
TITLE OF INVENTION: Protein
TITLE OF INVENTION: Quality
TITLE OF INVENTION: With Al
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                Sequence 8, Application US/08127904 Patent No. 5470951
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: (415) 324-096
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 4 amino acids
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APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE/DOCKET NUMBER: 05
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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NUMBER OF SEQUENCES:
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CITY: Palo Alto
STATE: CA
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                           ADDRESSEE:
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: 1500 East Duarte Road Duarte
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350 Cambridge Avenue, Suite 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Woo, Sam L.
Winn-Deen, Emily S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (415) 324-0960
                                                                                                                                                                                                                                                                                                                                       Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          linear
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                            City of Hope
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19920407
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                                                        Amnestic Effects of Amyloid n
Protein and Improving the
Quality of Life in Individuals
With Alzheimer Disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Probe Composition and Method : 8
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Pred. No. 1.6e+05
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COMPUTER READABLE FORM: MEDIUM TYPE: 3M Doub

Wang PC

3M Double Density 5 1/4" diskette

COUNTRY:

California

TRY: United States of America 91010-0269

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US-08-390-272-8
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SOFTWARE: Microsoft
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/127,904
FILING DATE: 29 September 1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA: NO. 5470951e
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
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INFORMATION FOR SEQ ID NO:
                                                                           CURRENT APPLICATION NUMBER: US/08/390
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REGISTRATION NUMBER: 16,541
REFERENCE/DOCKET NUMBER: NO. 5470951e
TELECOMMUNICATION INFORMATION:
TOP FOHONE: (202) 783-6040
                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSE: Vernon A. No. 5489678viel
STREET: One Market Plaza, Steuart Tower, Suite 2000
CITY: San Francisco
             PRIÓR APPLICATION DATA:
APPLICATION NUMBER: 07/624,120
FILING DATE: 06-DEC-1990
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: Very Large
                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Fodor, Stephen P.A.
APPLICANT: Stryer, Lubert
APPLICANT: Winkler, James L.
                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
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TELEFAX: (202) 783-6031
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No. 5489678viel, Vernon A.
                                                                                                                                                                                                                                                      California
                                                                                                                                                                                                                                                                                                                                                             Holmes, Christopher P.
Solas, Dennis W.
VENTION: Very Large Scale Immobilized Polymer
                                                                                                                                                                                                                                          USA
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100.0%; Pr
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0; Mismatches
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lo. 1.6e+05;
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RESULT 25
US-08-102-372-4
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; MOLECULE TYPE:
US-08-390-272-8
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GENERAL INFORMATION
 Query Match
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Best Local Similarity
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INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                      REFERENCE/DOCKET NUMBER: 05:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Grossman, Pa
APPLICANT: Fung, Steven
APPLICANT: Menchen, St
APPLICANT: Woo, Sam L.
APPLICANT: Winn-Deen, J
                                                                                                                                                                                                                                                                                                                                                                             MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
                                                                             HYPOTHETICAL: NO ORIGINAL SOURCE:
                                                                                           TOPOLOGIA TYPE: pe
                                                                                                                                                                                                                                                                                                               FILING DATE: 04-AUG-1993
CLASSIFICATION: 436
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                         SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STREET: 350 Camb
CITY: Palo Alto
STATE: CA
                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US/O
FILING DATE: 04-AUG-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY: UI
                                                                                                                                           STRANDEDNESS:
                                                                                                                                                                                                                                                                                   NAME: Powers, Vincent REGISTRATION NUMBER: 3
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REFERENCE/DOCKET NUMBER:
                                                                                                                                                                        LENGTH:
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                                                              INDIVIDUAL ISOLATE: synthetic tetrapeptide
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Woo, Sam L.
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Matches 2: Conservative 0: Mismatches 0: Indels 0: Gaps 0;

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Db 2 hr 3

Search completed: January 14, 2002, 07:57:32

Job time: 377 soc
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Sequence 1, A	Sequence 19,	Sequence 2, P	Sequence 9, P	Sequence 7, A	Sequence 17,	Sequence 88,	Sequence 15,	Sequence 30,	Sequence 35,		Sequence 3, A	Sequence 5, A	Sequence 5, A	Sequence 9, A	Sequence 8, A	Sequence 8, A	Sequence 69,	Sequence 22,	Sequence 22,	Sequence 7, A	Sequence 2, A	Sequence 23,
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ALIGNMENTS

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; Sequence 92, Application US/07857224B
; Patent No. 5958784
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INFORMATION FOR SEQ ID NO: 
SEQUENCE CHARACTERISTICS:
LENGTH: 344
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY: Switzerland
2IP: (note: this is an international post code)
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch diskette, 1.4 Mb storage
COMPUTER: Apple MacIntosh
OPERATING SYSTEM: MacIntosh 7.0
SOFTWARE: Microsoft Word
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Benner, Steven A.
TITLE OF INVENTION: Predicting Folded Structures of Proteins
NUMBER OF SEQUENCES: 114
                                                                                                                                                                                                                                                                                                                     FILING DATE: 03/25/92
CLASSIFICATION: 436
PRIOR APPLICATION DATA: none
TELECOMMUNICATION INFORMATION:
TELEPHONE: (International) 41 1 632 2830
TELEFAX: (International) 41 1 262 2437
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                                                                                                                                                 ORIGINAL SOURCE:
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                                                                                             PUBLICATION INFORMATION:
AUTHORS: I
                                                                                                                             ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CITY: Zurich
STATE: none
                                                                                                                                                                                                           TYPE: amino acid TOPOLOGY: linear
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                                   AUTHORS:
                                                                         AUTHORS
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Alcohol dehydrogenase, Table 3 Column
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Jeffery,
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US-07-857-224B-92
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US-07-857-224B-93
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Best Local Similarity 75.0
Conservative
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                                                                                                                                                                                                                                                    ORGANISM: Aspergillus FEATURE: Alcohol dehydrogenase, Table 3 Column 16 PUBLICATION INFORMATION:
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OPERATING SYSTEM: MacIntosh 7.0
SOFTWARE: Microsoft Word
CURRENT APPLICATION DATA:
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ZIP: (note: this is an international post code) CH-8092
COMPUTER READABLE FORM:
MEDLUM TYPE: 3.5 inch diskette, 1.4 mb storage
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ADDRESSEE: Steven A. Benner
STREET: Hadlaubstrasse 151
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES:
                                                                                                                                                        JOURNAL:
                                                                                                            PAGES: 4226-4230
DATE: 1981
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                                                                                                                                                                                          AUTHORS:
                                                                                                                                                                                                                                                                                                                                                                TYPE: amino acid
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FILING DATE: 03/25/92
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STATE: none
                                                                                                                                                                                                                                                                                                                    DESCRIPTION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     82 WKIGDYAG 89
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: Proceedings of the National Academy of Sciences, USA
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APPLICANT: Kofod, Lene V.

APPLICANT: Kauppinen, Markus S.

APPLICANT: Andersen, Lene N.

APPLICANT: Andersen, Lene N.

APPLICANT: Clausen, Ib G.

APPLICANT: Millertz, Anette

TITLE OF INVENTION: An Enzyme With Galactanase Activity

FILE REFERENCE: 4666.204 US

CURRENT APPLICATION NUMBER: US/09/137,855B

CURRENT FILING DATE: 1996-08-21

EARLIER APPLICATION NUMBER: 0233/96

EARLIER APPLICATION NUMBER: 0235/96

EARLIER FILING DATE: 1996-03-01

EARLIER FILING DATE: 1996-03-01

EARLIER APPLICATION NUMBER: 0235/96

EARLIER FILING DATE: 1996-03-01

EARLIER APPLICATION NUMBER: PCT/DK97/00092

EARLIER APPLICATION NUMBER: PCT/DK97/00092
; SOFTWARE: FastSEQ for Windows Version 3.0; SEQ ID NO 2; LENGTH: 350; TYPE: PRT; ORGANISM: Myceliophthora thermophila US-09-137-855-2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; TYPE: PRT ; ORGANISM: Humicola insolens US-09-137-855-4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 2, Application US/09137855B Patent No. 6242237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Mullertz, Anette
TITLE OF INVENTION: An Enzyme With Galactanase Activity
FILE REFERENCE: 4686.204-US
CURRENT APPLICATION NUMBER: US/09/137,855B
CURRENT FILING DATE: 1998-08-21
                                                                                                                                       NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EARLIER APPLICATION NUMBER: 0235/96
EARLIER FILING DATE: 1996-03-01
EARLIER APPLICATION NUMBER: PCT/DK97/00092
EARLIER FILING DATE: 1997-02-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EARLIER APPLICATION NUMBER: 0233/96 EARLIER FILING DATE: 1996-03-01
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Kauppinen, Markus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Kofod, Lene V.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 349
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66.7%;
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Query Match Best Local Similarity

68.8%; 66.7%;

Score 33; DB Pred. No. 92;

4;

Length 350;

Matches

STREET:

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US-08-822-445-10
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                                                                                                                                                                  Sequence 10, Application US/08822445 Patent No. 5952223
             GENERAL INFORMATION:
APPLICANT: Kuplan, Jerry
APPLICANT: Perou, Charles
APPLICANT: MOORE, Karen
APPLICANT: MOORE, Karen
TITLE OF INVENTION: COMPOSITIONS FOR THE DIAGNOSIS
TITLE OF INVENTION: AND TREATMENT OF CHEDIAK-HIGASHI SYNDROME
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
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TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 12:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: CORUZZÍ, LBURB A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7853-062-999
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-790-9090
TELEFAX: 212-869-8864
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LENGTH: 3672 amino acids
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MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Kaplan, Jerry
APPLICANT: Perou, Charles
APPLICANT: MOOFE, Karen
TITLE OF INVENTION: COMPOSITIONS FOR THE DIAGNOSIS
TITLE OF INVENTION: AND TREATMENT OF CHEDIAK-HIGASHI SYNDROME
NUMBER OF SEQUENCES: 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATTORNEY/AGENT INFORMATION:
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STATE: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: amino acid
TOPOLOGY: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION:
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Pennie & Edmonds
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66.7%;
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Pred. No. 9.1e+02;
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US-08-222-616-27
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Patent No.
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patth (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/222,616
FILING DATE: 4-APR-1994
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION MUMBER: PCT/US93/00586
FILING DATE: 22-JAN-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION FOR SEQ ID NO: 10:
                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
COMPUTER: PC-DOS/MS-DOS
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APPLICANT:
APPLICANT:
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APPLICANT:
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REGISTRATION NUMBER: 30,742
REFERENCE_DOCKET NUMBER: 7853-062-999
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-790-9090
TELEPHONE: 212-790-9090
TELEPK: 212-869-8864
TELEPK: 66141 PENNIE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/822.
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MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
LENGTH: 3801 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: PROTEIN TYROSINE KINASE AGONIST TITLE OF INVENTION: ANTIBODIES
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ZIP: 10036/2711
                                                                                                                                                                                                                               COUNTRY: UZIP: 94080
                                                                                                                                                                                                                                                                 STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
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5. 5635177
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New York
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Wood, William I.
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Matthews, William
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21-MAR-1997
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66.7%;
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                   PCT/US93/00586
                                                                                                                                                                                                                                                                                                                          Inc.
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Pred. No. 9.4e+02;
2; Mismatches C
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Fatches 6; Conserve
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                               INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 54 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
                                                                                                                                      NAME: Wendy M. Lee
REGISTRATION NUMBER: 00,000
REFERENCE/DOCKET NUMBER: 82:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                            PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/222616
FILING DATE: 04-APR-1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE/DOCKET NUMBER: 82
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-1994
TELEFAX: 415/952-9881
TELEX: 910/371-7168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES: (CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
LENGTH: 54 amino acids
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: 22-JAN-1992
ATTORNEY/AGENT INFORMATION:
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||||| |
19 WKIYSGA 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
                                                                                                       TELEPHONE: 415/225-1994
TELEFAX: 415/952-9881
                                                                                                                                                                                                                                                                                      CLASSIFICATION:
                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: PCT/US95/04228 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME: Lee, Wendy M. REGISTRATION NUMBER:
POPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: 07/8 FILING DATE: 22-JAN-1992
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                  amino acid
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                               54 amino acids
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Wood, William I
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Genentech, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            James M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PROTEIN TYROSINE KINASE AGONIST ANTIBODIES
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85.7%;
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; Sequence 11, Application US/08747221B
; Patent No. 6063610
                                                                                                                                       RESULT
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Best Local Similarity
****ches 6; Conserva
                                                                                                                       us-09-005-051-11
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                                                                                      Sequence 11, Application US/09005051 Patent No. 6291222
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Best Local S
Matches 6
                                                                    GENERAL INFORMATION:
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INFORMATION FOR SEQ ID NO:
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 APPLICANT: Silver, Gar
APPLICANT: Wisnewski,
TITLE OF INVENTION: NO
TITLE OF INVENTION: MC
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105 IYSYAG 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Verser, Carol Talkington REGISTRATION NUMBER: 37,459 REFERENCE/DOCKET NUMBER: FC-1 TELECOMMUNICATION INFORMATION: TELEPHONE: 970/493-7272
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 95
SOFTWARE: WordPerfect for Windows, Version 7.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/747,221B
APPLICATION NUMBER: US/08/747,221B
                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: NO. 6063610
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: NO TITLE OF INVENTION: MO NUMBER OF SEQUENCES: 6 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE: protein
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                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEPHONE: 9/0/4-9505
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE: Carol Talkington Verser, Ph.D. ADDRESSEE: Heska Corporation STREET: 1825 Sharp Point Drive CITY: Fort Collins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STATE:
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TOPOLOGY: linear
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                                               Silver, Gary W.
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No. 6063610el Carboxylesterase Nucleic Acid
Molecules, Proteins and Uses Thereof
i, Nancy
No. 6291222el Carboxylesterase Nucleic Acid
Molecules, Proteins and Uses Thereof
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100.0%; Pred. No.
tive 0; Mismatc
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85.7%;
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56;
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CORRESPONDENCE ADDRESS: NUMBER OF SEQUENCES:

66

ADDRESSEE: Carol Talkington Verser, Ph.D. ADDRESSEE: Heska Corporation

1825 Sharp Point Drive

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APPLICANT: Hideha
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APPLICATION NUMBER: USE FILLING DATE: September CLASSIFICATION: 435
PRIOR APPLICATION DATA: APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Verser, Carol Talkington REGISTRATION NUMBER: 37,459 REFERENCE/DOCKET NUMBER: FC-1 TELECOMMUNICATION INFORMATION: TELEPHONE: 970/493-7272
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PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/747,221
FILING DATE: NO. 6291222ember 12,
ATTORNEY/AGENT INFORMATION:

NAME: Verser, Carol Talkington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ZIP: 80525
COMPUTER REALABLE FORM:
TIM TYPE: Floppy disk
                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.
COMPUTER: IBM Compatible
OPERATING SYSTEM: MS-DOS
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OPERATING SYSTEM: Windows 95
SOFTWARE: WordPerfect for Windows, Version 7.0
CURRENT APPLICATION DATA:
                                                                                                   SOFTWARE: Wordperfect 5.1 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION:
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TELEPHONE: 970/484-9505
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STATE: Colorado
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CITY: Washington
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les 6; Conserv
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VENTION: CELL SURFACE POLYPEPTIDE GENE
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                                           ...лави: US/08/714,168
September 27, 1996
N: 435
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100.0%; Pred. No.
tive 0; Mismatc
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STRAIN: Porphyromonas (Bacteroides) gingivalis US-08-714-168-1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 1, Application US/09320721A Patent No. 6171805
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Best Local 9
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SEQUENCE CHARACTERISTICS:
                                                                                                           INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
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ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELECOMMUNICATION INFORMATION: TELEPHONE: 202-371-8850
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NAME: Warren M. Cheek, J
REGISTRATION NUMBER: 33,
                                                                                                                                       REGISTRATION NUMBER: 40,949
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-721-8200
                                                                                                                                                                                                             APPLICATION NUMBER: 08/7 FILING DATE: September 2 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                           SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM: MEDIUM TYPE: Diskette,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION:
MOLECULE TYPE:
ORIGINAL SOURCE:
                                                                                         SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                  PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           554 WKVHSY 559
                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/09/320,721A FILING DATE: May 27, 1999 CLASSIFICATION:
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                                                                                                                                                                                                                                                                                                                                                            OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: Washington
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                               TOPOLOGY:
                                          STRANDEDNESS:
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                                                                                                        TELEPHONE: 202-721-8250
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                                                         amino acid
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                                                                         563 amino acid
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VENTION: DNA AND HOST CELLS ENCODING A CELL
VENTION: SURFACE PROTEIN OF PORPHYROMONAS GINGIVALIS (AS AMENDED)
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Pred. No. 2.2e+02;
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US-08-747-221B-55
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Best Local Similarity
Friches 6; Conserve
                                                                                              RESULT 14
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                                                                                                                                                                                                                                                                                        US-08-747-221B-54
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Best Local Similarity
Thehes 4; Conserv
                Sequence 55, Application US/08747221B Patent No. 6663610
GENERAL INFORMATION:
APPLICANT: Silver, Gary W.
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                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: 970/484-9505
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE/DOCKET NUMBER: FC TELECOMMUNICATION INFORMATION: TELEPHONE: 970/493-7272
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Verser, Carol Talkington
REGISTRATION NUMBER: 37,459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OPERATING SYSTEM: Windows 95
SOFTWARE: WordPerfect for Windows, Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
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CITY: Fort Collins
STATE: Colorado
COUNTRY: USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Silver, Gary W. APPLICANT: Wisnewski, Nanc
APPLICANT: Wisnewski, Nancy
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                                                                                                                                              79 IYSYAG
                                                                                                                                                                                                                                                                                                                        TOPOLOGY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE: Heska Corporation STREET: 1825 Sharp Point Drive
                                                                                                                                                                                                                                                                                                                                                       LENGTH:
                                                                                                                                                                           3 IYSYAG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 80525
                                                                                                                                                                                                                                                                                                                   : 570 amino acids
amino acid
GY: linear
                                                                                                                                              84
                                                                                                                                                                                                         66.7%; Score 32; DB ilarity 100.0%; Pred. No. 2. Conservative 0; Mismatches
             Silver, Gary W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Carol Talkington Verser, Ph.D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6063610ember 12,
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66.7%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              37,459
                                                                                                                                                                                                                                                                                                                                                                                         54:
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2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1996
                                                                                                                                                                                                                         DB 3; L, 2.2e+02;
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1.2e+02;
0;
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                                                                                                                                                                                                                                        Length 570;
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                                                                                                                                                                                                         Gaps
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                                                                                                                                                                                                                                                                                                                                                         Sequence 54, Application US/09005051
Patent No. 6291222
GENERAL INFORMATION:
APPLICANT: Silver, Gary W.
APPLICANT: Wisnewski, Nancy
TITLE OF INVENTION: Molecules, P.
TITLE OF INVENTION: Molecules, P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                     COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 95
SOFTWARE: WordPerfect for Windows, Version
CURRENT APPLICATION DATA:
                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE/DOCKET NUMBER: FC TELECOMMUNICATION INFORMATION: TELEPHONE: 970/493-7272
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OPERATING SYSTEM: Windows 95
SOFTWARE: WordPerfect for Windows, Version 7.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLECULE TYPE:
PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION:
               FILING DATE:
CLASSIFICATION:
                                                                                                                                                                                                                         STREET: 1825 Sharp Point Drive
CITY: Fort Collins
STATE: Colorado
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity 100 hes 6; Conservative
                                                                                                                                                                                     ZIP: 80525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        79 IYSYAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/08/747, FILING DATE: No. 6063610ember CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC compatible OPERATING SYSTEM: Windows 9
                                                     APPLICATION NUMBER:
                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                                                                  ADDRESSEE: Carol Talkington Verser, Ph.D. ADDRESSEE: Heska Corporation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: Verser, Carol Talkington REGISTRATION NUMBER: 37,459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET: 1825 Sharp Point Drive CITY: Fort Collins
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDIUM TYPE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADDRESSEE: Carol Talkington Verser, Ph.D. ADDRESSEE: Heska Corporation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3 IYSYAG 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          84
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Floppy disk
                                                                                                                                                                                                                                                                                                                                                           No. 6291222el Carboxylesterase Nucleic Acid Molecules, Proteins and Uses Thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        No. 6063610el Carboxylesterase Nucleic Acid Molecules, Proteins and Uses Thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   66.7%; Score 32; 100.0%; Pred. No.
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                                                     US/09/005,051
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53610ember 12, 1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Mismatches
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APPLICATION NUMBER:

08/747,221

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INFORMATION FOR SEQ ID NO: 54
SEQUENCE CHARACTERISTICS:
LENGTH: 570 amino acids
TYPE: amino acid
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-005-051-54
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US-09-005-051-55
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US-09-005-051-55
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Best Local Similarity 100.
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                                                                                                                         CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/747,221
APPLICATION NUMBER: 08/747,221
FILING DATE: NO. 629122cmber 12, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Vorser, Carol Talkington
REGISTRATION NUMBER: 37,459
REFERENCE/DOCKET NUMBER: FC-1
TELECOMMUNICATION INFORMATION:
TELEFAN: 970/493-7272
TELEFAN: 970/493-7275
                                                                   TELEFAX: 970/484-9505
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 570 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Verser, Carol Talkington REGISTATION NUMBER: 37,459
REFERENCE/DOCKET NUMBER: FC-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 970/493-7272
                                                                                                                                                                                                                                                                                                                                                          COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 95
SOFTWARE: WordPerfect for Windows, Version 7.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/005,051
                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: No. 6291222el Carboxylesterase Nucleic Acid TITLE OF INVENTION: Molecules, Proteins and Uses Thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
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                                 TOPOLOGY: linear
                                                     TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CITY: Fort Collins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE: Carol Talkington Verser, Ph.D. ADDRESSEE: Heska Corporation STREET: 1825 Sharp Point Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     79 IYSYAG 84
                                                                                                                                                                                                                                                                                                                                               FILING DATE:
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                                                                     570 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    USA
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             protein
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           66.7%; Score 32;
100.0%; Pred. No.
tive 0; Mismatc
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 4; Lo
. 2.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 570
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RESULT 18
US-09-005-051-31
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Best Local Similarity
6; Conserve
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Patent NO. WALLEY GENERAL INFORMATION: GENERAL INFORMATION: GENERAL INFORMATION: GARY W. APPLICANT: Wisnewski, Nancy APPLICANT: Wisnewski, Nancy TITLE OF INVENTION: No. 6291222el Carboxylesterase Nucleic Acid TITLE OF INVENTION: Molecules, Proteins and Uses Thereof TITLE OF SEQUENCES: _66
                                                                                                                                           Sequence 31, Application US/09005051 Patent No. 6291222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 31, Application US/08747221B Patent No. 6063610
                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                   Matches
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INFORMATION FOR SEQ ID NO: 31:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 80525

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 95

SOFTWARE: WordPerfect for Windows, Version 7.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY: 1: MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
LENGTH: 595 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELECOMMUNICATION INFORMATION: TELEPHONE: 970/493-7272
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Silver, Ga
APPLICANT: Wisnewski,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                104 IYSYAG 109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADDRESSEE: Carol Talkington Verser, Ph.D. ADDRESSEE: Heska Corporation STREET: 1825 Sharp Point Drive CITY: Fort Collins STATE: Colorado
                                                                                                                                                                                                                                                                                                                   Local Similarity
nes 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Verser, Carol Talkington REGISTRATION NUMBER: 37,459 REFERENCE/DOCKET NUMBER: FC-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US/08/747,221B FILING DATE: No. 6063610ember 12, CLASSIFICATION: 435
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                                                                                                                                                                                                                                                                               3 IYSYAG 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 84
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                                                                                                                                                                                                                                                                                                                                                                                                                                           linear
                                                                                                                                                                                                                                                                                                                                                                                                                       protein
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                                                                                                                                                                                                                                                                                                                                    66.7%;
100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nancy
                                                                                                                                                                                                                                                                                                                                    Score 32; DB 3; I
; Pred. No. 2.3e+02;
                                                                                                                                                                                                                                                                                                                   0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                  Length 595;
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                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                   0
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                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                   0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0;
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ADDRESSEE: Heska Corporation STREET: 1825 Sharp Point Drive CITY: Fort Collins

COUNTRY:

USA

Colorado

80525

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RESULT 19
US-08-747-221B-25
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Best Local Similarity
Thes 6; Conserve
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 25, Applia Patent No. 6063610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
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INFORMATION FOR SEQ ID NO: 31:
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PRIOR APPLICATION DATA:
APPLICATION UMBER: 08/747,221
FILING DATE: NO. 6291222ember 12, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Verser, Carol Talkington
REGISTRATION NUMBER: 37,459
REFERENCE/DOCKET NUMBER: FC-1
                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 95
SOFTWARE: WordPerfect for Windows, Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: No. 6063610el Carboxylesterase Nucleic Acid
TITLE OF INVENTION: Molecules, Proteins and Uses Thereof
NUMBER OF SEQUENCES: 66
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 95
SOFTWARE: WordPerfect for Windows, Version 7.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Silver, Gary W. APPLICANT: Wisnewski, Nancy
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                                 APPLICATION NUMBER: US/08/747,221B
FILING DATE: NO. 6063610ember 12, 1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             104 IYSYAG 109
                                                                                                                                                                                                                                                                             ADDRESSEE: Carol Talkington Verser, Ph.D. ADDRESSEE: Heska Corporation STRRET: 1825 Sharp Point Drive CITY: Fort Collins STATE: Colorado
                                                                                                                                                                                                                                           COUNTRY: U:
ZIP: 80525
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US/09/005,051
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NAME: Verser, Carol Talkington REGISTRATION NUMBER: 37,459
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amino acid
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100.0%; Pr
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Pred. No.
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US-09-005-051-25; Sequence 25, Application US/09005051; Patent No. 6291222
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Best Local Similarity
6; Conserva
                                                                           ; MOLECULE TYPE: protein US-09-005-051-25
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Matches
              Query Match
Best Local
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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                                                                                        TYPE: amino acid
TOPOLOGY: line
                                                                                                                                                                                                                                                                           CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION UNMBER: 08/747,221
FILING DATE: NO. 6291222ember 12,
ATTORNEY/AGENT INFORMATION:
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                       OPERATING SYSTEM: Windows 95
SOFTWARE: WordPerfect for Windows,
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
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TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Silver, Ga
APPLICANT: Wisnewski,
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TELECOMMUNICATION INFORMATION:
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TELEPHONE: 970/493-7272
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TELEPHONE: 970/484-9505
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                                                                                                                                                                                                                                  NAME: Verser, Carol Talkington REGISTRATION NUMBER: 37,459
REFERENCE/DOCKET NUMBER: FC-1
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Wisnewski, Nancy
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Molecules, Proteins and Uses Thereof
66.7%; Score 32;
100.0%; Pred. No.
tive 0; Mismatc
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100.0%; Pred. No.
Live 0; Mismatc!
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 DB 4; Le
2.3e+02;
thes 0;
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2.3e+02;
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Sequence 6, Application US/08446938B
Patent No. 6008011
GENERAL INFORMATION:
APPLICANT: Lin, Herbert Y.
APPLICANT: Wang, Xiao-Fan
APPLICANT: Weinberg, Nobert A.
APPLICANT: Lodish, Harvey F.
TITLE OF INVENTION: TGF-Beta Type Receptor cDNAs Encoded
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION UNMBER: US/08/451,946B
FILING DATE: 26-MAY-1996
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/311,703
FILING DATE: 23-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION UNMBER: US 07/786,063
EILING DATE: 31-OCT-1991
                                                                                                                                                                                                                                                                                                                                     Best Local Similarity
Matches 5; Conserv
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APPLICANT:
APPLICANT:
APPLICANT:
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APPLICANT: Lodish, Harvey F.
TITLE OF INVENTION: TGF-Beta Type Receptor cDNAs Encoded
TITLE OF INVENTION: Products and Uses Therefor
NUMBER OF SEQUENCES: 8
                                                                                                                                                                                                                                                      808 WYIYSHTG 815
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: Granahan, Patricia
REGISTRATION NUMBER: 32,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                               1 WKIYSYAG 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      amino acid
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62.5%;
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    Mismatches

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Pred. No. 3.3e+02;
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RESULT 23
US-08-311-703A-6
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
                                                                                                                                                                                                                                                  APPLICANT: Lin, Herbert Y.
APPLICANT: Wang, Xiao-Fan
APPLICANT: Weinberg, Robert A.
APPLICANT: Lodish, Harvey F.
TITLE OF INVENTION: TGF-Beta Type Receptor cDNAs Encoded
TITLE OF INVENTION: Products and Uses Therefor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-861-6240
TELEFAX: 617-861-9540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ZIP: UZI/S
COMPUTER READABLE FORM:
TYPE: Floppy disk
                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
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ATTORNEY/AGENT INFORMATION:
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APPLICATION NUMBER: US 08/311,703
FILING DATE: 23-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/786,063
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION DATA:
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CORRESPONDENCE ADDRESS: Hamilton, Brook, Smith & Reynolds, P.C. ADDRESSEB: Hamilton, Brook, Smith & Reynolds, P.C.
                                                                                                                                                                                                                                          NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     808 WYIYSHTG 815
                                                                                                                                         STREET: Two Militia CITY: Lexington STATE: Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US/08/446,938B FILING DATE: 23-MAY-1995 CLASSIFICATION: 536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
                                                                                                                         COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REGISTRATION NUMBER: 32,227 REFERENCE/DOCKET NUMBER: WH
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Pred. No. 3.
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3.3e+02;
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/311,703A
FILING DATE: 23-SEP-1994

CLASSIFICATION:

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; TOPOLOGY: linear; MOLECULE TYPE: protein US-08-311-703A-6
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Best Local Similarity
Thehes 5; Conserv
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                                                                                                                                                   CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION UNMBER: US 08/311,703
FILING DATE: 23-MAY-1995
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Lodish, Harvey F.
TITLE OF INVENTION: TGF-Beta Type Receptor cDNAs Encoded
TITLE OF INVENTION: Products and Uses Therefor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Lin, Herbert Y.
APPLICANT: Wang, Xiao-Fan
APPLICANT: Weinberg, Robert A.
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TELECOMMUNICATION INFORMATION:
TELEPHONE: 781-861-6240
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APPLICATION NUMBER: US 07/786,063
FILING DATE: 31-OCT-1991
FILING DATE: 23-MAY-1995
ATTORNEY/AGENT INFORMATION:
NAME: Granahan, Patricia
REGISTRATION NUMBER: 32,227
*REFERENCE/DOCKET NUMBER: WHI91-09FX
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-861-6240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
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CITY: I
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                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY: U
ZIP: 02173
                                                                                                                                                                                                                                                                                                                                                                                                                                              STATE: Massachusetts
                                                                                                                                   APPLICATION NUMBER:
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Pred. No. 3.3e
1; Mismatches
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Search completed: January 14, 2002, 06:22:57 Job time: 175 sec
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                                                                                                                                                                                                                                              ; ORGANISM: genomic US-09-183-543-6
                                                                                                                                                                                                                                                                                                                                                                FILE OF INVENTION: Modulation of TGF-Beta by TGI
FILE REFERENCE: WHI91-09FXA
CURRENT APPLICATION NUMBER: US/09/183,543A
CURRENT FILING DATE: 1998-10-30
EARLIER APPLICATION NUMBER: US 08/446,939
EARLIER FILING DATE: 1995-05-23
EARLIER FILING DATE: 1995-05-23
EARLIER FILING DATE: 1994-09-23
EARLIER FILING DATE: 1994-09-23
EARLIER APPLICATION NUMBER: US 07/786,063
EARLIER APPLICATION NUMBER: US 07/786,063
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-183-543-6
                                                                                                                                                                                                                                                                                             NUMBER OF SEQ ID NOS: 8
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 6
LENGTH: 853
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Best Local Similarity 62:

Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Lin, Herbert Y.
APPLICANT: Wang, Xiao-Fan
APPLICANT: Weinberg, Robert A.
APPLICANT: Lodish, Harvey F.
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                                                                                                                                                                                                                                                                                TYPE: PRT
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TYPE: amino acid
TOPOLOGY: liner
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3.3e+02;
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                                                                                                                                                                                           Length 853;
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	erythromycin resis	rRNA methylase ern	aphid transmission	hypothetical	hypothetical	myosin-IXb	myosin heavy	neurotrophi	spore cortex	hypothetical	sulfate adenylyltr	probable dipeptida	alcohol dehydrogen	alcohol dehydrogen	dihydro-orotate de	dihydroorotate oxi	hypothetical	hypothetical	aromatase -	ornithine decarbox	hypothetical prote

A; Molecule type: DNA A; Molecule type: DNA A; Molecules: 75-442 < KWO> A; Residues: 75-442 < KWO> A; Residues: 75-442 < KWO> A; Residues: 75-442 < KWO> A; Residues: 75-442 < KWO> A; Residues: 75-442 < KWO> A; Residues: 75-442 < KWO> A; Rote: part of this sequence, including the amino and carboxyl ends of the mature pr A; Mote: part of this sequence, including the amino and carboxyl ends of the mature pr A; Matsuzawa, H.; Tokugawa, K.; Hamaoki, M.; Mizoguchi, M.; Taguchi, H.; Terada, I.; K Eur. J. Blochem. 171, 441-447, 1988 A; Title: Purification and characterization of aqualysin I (a thermophilic alkaline se A; Reference number: S00324; MUID:88151937 A; Molecule type: protein A; Residues: 128-170 < MATS> A; Residues: 128-170 < MATS> C; Superfamily: subtilisin; subtilisin homology C; Keywords: extracellular protein; hydrolase; serine proteinase F; 1-14/Domain: signal sequence #status predicted <SIG> F; 15-127/Domain: propeptide #status predicted <PRO> F; 128-408/Product: aqualysin I #status experimental <MAT> F; 128-7-864/Domain: subtilisin homology <SBT> F; 157-264/Domain: subtilisin homology <SBT> F; 157-264/Domain: subtilisin homology <SBT> F; 157-264/Domain: subtilisin homology <SBTO F; 409-513/Domain: carboxyl-terminal propeptide #status predicted F; 409-513/Domain: carboxyl-terminal propeptide #status predicted A;CrossTreferences: GB:J90108; GB:D90108; GB:J05414; NID:g217171; PIDN:BAA14135.1; PI A;Note: the authors translated the codon CTG for residue 470 as Val, and GGT for resi R;Kwon, S.T.; Terada, I.; Matsuzawa, H.; Ohta, T. Eur. J. Biochem. 173, 491-497, 1988 A;Title: Nucleotide sequence of the gene for aqualysin I (a thermophilic alkaline ser A;Reference number: S00620; MUID:88225062 R;Terada, I.; Kwon, S.T.; Miyata, Y.; Mats J. Biol. Chem. 265, 6576-6581, 1990 A;Title: Unique precursor structure of an A;Reference number: A35742; MUID:90216674 A;Accession: A35742 aqualysin (EC 3.4.21.-) C; Species: Thermus aqua C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #tcxt_change 16-Jun-2000 C;Accession: A35742; S00620; S00324 A; Accession: S00620 A; Residues: 1-513 <TER> A; Molecule type: DNA Query Match Best Local Thermus aquaticus I precursor - Thermus aquaticus 81.2%; 62.5%; Score 39; D Pred. No. 8. 3; Mismatche Y.; Matsuzawa, H.; Ohta, T. extracellular protease, DВ 3.9; ۲. Length 513; <CPR> aqualysin I, with

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Matches

Similarity 5; Conserv

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A; ACCESSION PREIMINARY
A; Molecule type: DNA
A; Residues: 1-288 <WHI>
A; Cross-references: GB:AE002064;
A; Cross-references: GB:AE002064;
                                                                                                                                                                                                                                                                                                                                           A;Cross-references: GB:M92054; NID:g160320; PID:g160321
A;Note: sequence extracted from NCBI backbone (NCBIN:121419,
C:Superfamily: hexokinase; hexokinase homology
C;Keywords: phosphotransferase
F;42-482/Domain: hexokinase homology <HXK>
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C;Species: Deinococcus radiodurans
C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 02-Sep-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mol. Biochem. Parasitol. 56, 89-101, 1992
A;Title: Molecular analysis of plasmodium
A;Reference number: A48457; MUID:93116809
A;Accession: A48457
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R;Olafsson, P.; Matile,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    hexokinase (EC 2.7.1.1) - malaria parasite (Plasmoc C;Species: Plasmodium falciparum C;Date: 01-Dec-1993 #sequence_revision 18-Nov-1994 C;Accession: A48457
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myosin heavy chain - chicken (clone N125) (fragment) C;Species: Gallus gallus (chicken) C;Date: 05-Oct-1988 #sequence_revision 05-Oct-1988 #C;Accession: B25217 R;Kropp, K.; Gulick, J.; Robbins, J.
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A; Residues: 1-493 <OLA>
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6; Conser
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75.0%;
                                                                                                                                                                                                                                                    Score 37; DB Pred. No. 21; 0; Mismatches
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T.; Zalewski,
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A; Molecule type: DNA
A; Residues: 1-169 <KRO>
A; Cross-references: GB: M13513; NID:g212361; PIDN:AAA48965.1; PID:g555466
C; Superfamily: myosin heavy chain; myosin motor domain homology
C; Keywords: ATP; muscle
F; 90-169/Domain: myosin motor domain homology (fragment) <MMOT>
                                                                                                                                                                                                                         R;Kropp, K.; Gulick, J.; Robbins, J.
J. Biol. Chem. 261, 6613-6618, 1986
A;Title: A canonical sequence organization at the
A;Reference number: A92587; MUID:86196091
A;Accession: A25217
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A;Title: A canonical sequence organization at the 5'-end of the A;Reference number: A92587; MUID:86196091
A;Accession: B35217
A;Molecule type: DNA
A;Residues: 1-168 <KRO>
C;Superfamily: myosin heavy chain; myosin motor domain homology C;Keywords: ATP; muscle
F;89-168/Domain: myosin motor domain homology (fragment) <MMOT>
                                                                                                                                                                                                                                                                                                                                                 myosin heavy chain - chicken (clone N101) (fragment)
C;Species: Gallus gallus (chicken)
C;Date: 05-Oct-1988 #sequence_revision 05-Oct-1988 #text_change 13-Aug-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       R:Kropp, K.E.; Gulick, J.; Robbins, J.
J. Biol. Chem. 262, 16536-16545, 1987
A;Title: Structural and transcriptional analysis
A;Reference number: A28476; MUID:88059036
A;Accession: A28476
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     myosin heavy chain - chicken (clone N127) (fragment)
C:Species: Gallus gallus (chicken)
C:Date: 20-Jun-1989 #sequence_revision 20-Jun-1989 #text_change 13-Aug-1999
C:Accession: A28476
Query Match
Best Local Similarity
Thes 5; Conserva
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A;Residues: 1-168 <KRO>
A;Cross-references: GB:M18139; GB:J03467; NID:g212379; PIDN:AAA48973.1; PID:g555469
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5; Conserv
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Pred. No.
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Pred. No.
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Conservative

Mismatches

<u>ب</u>

Indels

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myosin heavy chain - common carp (fragment)
C:Species: Cyprinus carpio (common carp)
C:Date: 15-Feb-1997 #sequence_revision 13-Mar-1997 #text_change 02-Feb-2001
C:Accession: $66521
R:Gauvry, L.; Ennion, S.; Hansen, E.; Butterworth, P.; Goldspink, G.
Eur. J. Blochem. 236, 887-894, 1996
A:Title: The characterisation of the 5' regulatory region of a temperature- induced myos A:Reference number: $66521; MUID:96270741
A:Accession: $66521
A:Status: Proliminary Pro
myosin heavy chain, cardiac muscle - chicken (fragments) c;Species: Gallus gallus (chicken) C;Date: 07-Sep-1900 #sequence_revision 10-Jun-1993 #text_change 02-Feb-2001 C;Accession: PS0075; A21173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          hypothetical protein F53C11.1 - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999 C;Accession: T22558 R;Baynes, C.
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C:Superfamily: myosin heavy chain; myosin motor domain homology
C:Keywords: nucleotide binding; P-loop
E:88-215/Domain: myosin motor domain homology (fragment) <MMOT>
F:178-185/Region: nucleotide-binding motif A (P-loop)
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A; Gene: CESP:F53C11.1
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A;Accession: T22558
A;Status: preliminary; translated from GB/EMBL/DDBJ
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C;Genetics:
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A; Experimental source: clone F53C11
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A; Residues: 1-307 <WIL>
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A; Residues: 1-215 <GAU>
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                                                                                                                                                    PS0075
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A; Introns: 53/3;
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Best Local :
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Pred. No. 14;
2; Mismatches
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myosin S-1 heavy chain, cardiac muscle - chicken (fragment) %;Contains: myosin ATPase (EC 3.6.1.32) C;Species: Gallus gallus (chicken) C;Date: 28-Aug-1985 #sequence_revision 07-Oct-1994 #text_ch C;Accession: JX0317
                                                                                                                                          RESULT
JX0317
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT
S49119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C;Comment: Myosin is composed of two molecules of heavy chains and four molecules of ase activity and binds to actin. The proteolytic fragment corresponding to this part C;Superfamily: myosin heavy chain; myosin motor domain homology C;Keywords: ATP; blocked amino end; cardiac muscle; heart; methylated amino acid; mus F;86-333/Domain: myosin motor domain homology (fragments) <MMOT> F;176-183/Region: nucleotide-binding motif A (P-loop) F;176-183/Region: nucleotide-binding motif A (P-loop) F;17Modified site: blocked amino end (Met) #status experimental F;32/Modified site: N6-methyllysine (Lys) #status experimental F;127/Modified site: N6,N6-trimethyllysine (Lys) #status experimental F;320/Modified site: 3'-methylhistidine (His) #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Cross-references: EMBL:Z34849; NID:g509377; PIDN:CAA84358.1; PID:g509378 C;Superfamily: myosin heavy chain; myosin motor domain homology C;Keywords: ATP; nucleotide binding; P-loop F;89-571/Domain: myosin motor domain homology (fragment) <MMOT> F;179-186/Region: nucleotide-binding motif A (P-loop)
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A; Residues: 1-571 < JAE>
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A; Accession: S49119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             submitted to the EMBL Data Library, June 1994 A; Description: unpublished.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C; Species: Oryctolagus cuniculus (domes C; Date: 01-Feb-1995 #sequence_revision
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A;Title: Primary structure of N-terminal fragment (23kDa) of chicken cardiac myosin
A;Reference number: PS0075
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Status: preliminary
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C; Accession:
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H.; Yajima,
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Maita,
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Mol. Gen. G. Nagahashi, S.; Doi, M.; Ohta, A.; Takagi, M.; & Mol. Gen. Cloning of the chitin synthase 3 gene from Candida A;Reference number: S39951; MUID:94067017 A;Accession: S39951
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A;Title: Primary structure of chicken cardiac myosin S-1 heavy chain.
A;Reference number: JX0317; MUID:95050426
A;Accession: JX0317
A;Reference number: JX0317; MUID:95050426
A;Accession: JX0317
A;Residues: 1-830 <NAK>
A;Residues: 1-830 <NAK>
A;Experimental source: cardiac ventricular muscle
C;Comment: This protein acts as a transducer which converts chemical energy into work an C;Superfamily: myosin heavy chain; myosin motor domain homology
C;Reywords: actin binding; ATP; cardiac muscle; heart; hydrolase; methylated amino acid; F;86-767/Domain: myosin motor domain homology <MMOT>
F;116-183/Region: nucleotide-binding motif A (P-loop)
F;127,549/Modified site: N6.N6.N6-trimethyllysine (Lys) #status predicted
F;127,549/Modified site: 3'-methylhistidine (His) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          chitin synthase (EC 2.4.1.16) 3 - yeast (Candida albicans)
C;Species: Candida albicans
C;Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 20-Aug-1999
C;Accession: 33951
C;Accession: 33951
R;Sudoh, M.; Nagahashi, S.; Doi, M.; Ohta, A.; Takaqi, M.: Arisawa. M.
A; Molecule type: mRNA
A; Residues: 1-1931 <NIK>
A; Residues: 1-1931 <NIK>
A; Cross-references: GB:U53862; NID:g1289513; PIDN:AAC59912.1;
C; Superfamily: myosin heavy Chain; myosin motor domain homolog
F;81-761/Domain: myosin motor domain homology <MMO>
                                                                                                                                     R;Nikovits Jr., W.; Wang, G.F.; Feldman, J.L.; Miller, J.B.; Wade, R.; Nelson, L.; J. Biol. Chem. 271, 17047-17056, 1996
A;Title: Isolation and characterization of an avian slow myosin heavy chain gene ex A:Reference number: A59234; MUID:96291845
A;Accession: A59234
A;Status: preliminary; not compared with conceptual translation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Map position: 1
C; Superfamily: chit
C; Keywords: chitin
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A; Residues: 1-1175 <SUD>
A; Cross-references: EMBL:D13454
                                                                                                                                                                                                                                                                                                                                                                                              slow myosin heavy chain 3 - quail
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                                                                                                                                                                                                                                                                                                                                     ;Species: Coturnix coturnix;Date: 19-May-2000 #text_change 08-Sep-2000;Date: 19-May-2000 #sequence_revision 19-May-2000 #text_change 08-Sep-2000
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62.5%;
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: Pred. No. 76;
1; Mismatches
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     R;Liew, C.C.; Sole, M.J.; Yamauchi-Takihara, Nuccleic Acids Res. 18, 3647-3651, A;Title: Complete sequence and organization A;Reference number: S12733; MUID:90301496
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C;Species: Homo sapiens (man)
C;Jate: 31-Dec:1993 #sequence_revision 31-Dec-1993 #text_change 19-Jan-2001
C;Jate: 31-Dec:1993 #sequence_revision 31-Dec-1993; A24997; A27888; I54254; S12458; S09331; C;Accession: A37102; S12733; A94224; B28908; A24997; A27888; I54254; S12458; S09331; R;Jaenicke, T.; Diederich, K.W.; Haas, W.; Schleich, J.; Lichter, P.; Pfordt, M.; Baceenomics 8, 194-206, 1990
A;Title: The complete sequence of the human beta-myosin heavy chain gene and a compara, Reference number: A37102; MUID:91065634
A;Accession: A37102
                                                                                                                                                                                                                                                                                                                                                                                                        RESULT
A37102
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Molecule type: mRNA
A; Residues: 962-965; 'E', 967-980, 'E', 981-985, 'Q', 987-1007, 'A', 1009, 'E', 1011, 'RKT', 1015
536, 'L', 1538-1555, 'K', 1557-1934 <JAN>
A; Cross-references: GB:X07273; NID:949640; PIDN:CAA30256.1; PID:949641
A; Note: the authors translated the codon GTG for residue 1504 as Leu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Cross-references: GB:L12104; NID:g402371; PIDN:AAA62313.1; PID:g402372 R;Jandreski, M.A.; Sole, M.J.; Liew, C.C. Nucleic Acids Res. 16, 4737, 1988 A;Title: Sequence of cDNA encoding the Syrian hamster cardiac beta-myosin A;Reference number: A28298; MUID:88247788 A;Accession: A28298
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                                                                                                                                                                                                                                                                                                                                               myosin beta heavy chain, cardiac and skeletal muscle -
N;Contains: myosin ATPase (EC 3.6.1.32)
  A;Cross-references: GB:M57965; GB:M30603; NID:g179507; PIDN:AAA51837.1; R;Liew, C.C.; Sole, M.J.; Yamauchi-Takihara, K.; Kellam, B.; Anderson, I
                                                           A; Molecule type: DNA
A; Residues: 1-1935 <JAE>
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A;Accession: I48153
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A; Title: Characterization and nucleotide sequence
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A; McCessave. A; McCessave. A; Molecule type: mRNA A; Molecule type: mRNA A; Rosidues: 1412-1518, 'R',1520-1574,'NV',1577-1935 <KUR> A; Rosidues: references: GB:M21665  
A; Mote: the authors translated the codon AGC for residue 108 A; Mote: De : Umeda, P.K.; Levin, J.E.; Vosberg, H.P.
                                                                                                                                                                                                                                                                                                                                                                                                                          A:Molecule type: mRNA
A:Residues: 785-1076,'E',1078-1123,'A',1125-1702,'DE',1705-1935 <BOB>
A:Residues: 785-1076,'E',1078-1123,'A',1125-1702,'DE',1705-1935 <BOB>
A:Cross-references: EMBL:X51591; NID:929467; PIDN:CAA35940.1; PID:929468
R:Bobber, E.; Buchberger-Seidl, A.; Braun, T.; Singh, S.; Goedde, H.W.; Arnold, Eur. J. Blochem. 189, 55-65, 1990
Eur. J. Blochem. 189, 55-65, 1990
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A;Residues: 1-87,'Q',89-106,'E',108-177;1325-1702,'DR',1705-1786,1788-1803,'E',1804-193:
R;Yamauchi-Takihara, K.; Sole, M.J.; Liew, J.; Ing, D.; Liew, C.C.
proc. Natl. Acad. Sci. U.S.A. 86, 7416-7417, 1989
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                                                                                       R;Jandreski, M.A.; Liew, C.C.
Hum. Genet. 76, 47-53, 1987
A;Title: Construction of a human ventricular
A;Reference number: S02229; MUID:87192738
                                                                                                                                                                                                                                           A:Molecule type: mRNA
A:Residues: 785-830,'x',832-900,'x',902-970,'x',972-1040,'x',1042-1076,'E',1078-1110,'x',1602-1670,'x',1672-1702,'DE',1705-1740,'x',1742-1810,'x',1812-1935 <BOW>
                                                                                                                                                                                                                                                                                                                                                       A;Title: Identification of three developmentally controlled isoforms of A;Reference number: $09331;$ MUID:$90235862 A;Accession: $09331
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A;Title: Isolation and characterization of A;Reference number: I54254; MUID:89154425
A;Accession: I54254
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Title: Human cardiac myosin heavy chain A;Reference number: A93669; MUID:87260010 A;Accession: A27858
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A; Rosidues: 682-721;975-1112;1854-1935 <LIC>
A; Cross-references: CB: X04627
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A;Accession: A24997
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A;Title: Molecular cloning and characterization of human cardiac alpha- and beta-form my
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A; Molecule type: mRNA
A; Residues: 1393-1702, 'DR', 1705-1935 <JAN>
                                                            A; Accession: S02229
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A;Molecule type: DNA
A;Residues; 653-720 <RES>
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A: Cross-references: GDB:120215; OMIM:160760

A: Map position: 14412-14412

A: Map position: 14412-14412

A: Introns: 67/3; 115/3; 168/1; 177/2; 213/3; 244/3; 266/1; 299/1; 333/3; 380/1; 419/3

A: Introns: 67/3; 115/3; 168/1; 177/2; 213/3; 1719/3; 1761/3; 1853/3; 1885/3; 1930/3

C: Superfamily: myosin heavy chain: myosin motor domain homology

C: Keywords: actin binding; ATP; cardiac muscle; coiled coil; heart; hydrolase; methyl

F: 88-766/Domain: myosin motor domain homology < MMOTP

F: 178-185/Region: nucleotide-binding motif A (P-loop)

F: 548-585/Region: actin binding #status predicted

F: 639-1935/Domain: coiled coil #status predicted

F: 839-1935/Domain: coiled coil #status predicted <COI>
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A;Title: Characterization of diverse forms
A;Reference number: A93616; MUID:86176778
A;Accession: B23767
                                                                                                                                                                                                                             R; Mahdavi, V.; Lompre, A.M.; Chambers, A.P.; Eur. Heart J. 5, 181-191, 1984
A; Title: Cardiac myosin heavy chain isozymic
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A; Residues: 1-1935 (KRA>
A; Cross-references: EMBL:X15939; NID:956656; PID
A; Cross-references: EMBL:X15939; NID:956656; PID
R; MCNally, E. M.; Kraft, R.; Bravo-Zehnder, M.; T
J. Mol. Biol. 210, 665-671, 1989
A; Title: Full-length rat alpha and beta cardiac
A; Reference number: S07535; MUID:90133919
A; Accession: S07536
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Nucleic Acids Res. 17, 7529-7530, 1989
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S06006
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A;Cross-references: GB:M32698; NID:g205598; PIDN:AAA41659.1; R;Mahdavi, V.; Periasamy, M.; Nadal-Ginard, B. Nature 297, 659-664, 1982
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Title: Complete nucleotide sequence of full length cDNA for A;Reference number: S06006; MUID:90016823 A;Accession: S06006
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                                                                                                                                                                             A; Reference number: I53305; MUID:85179510 A; Accession: I67441
                                                                                                                                                                                                                                                                                                                  A; Residues: 1-950, 'RK', 953-1935 <MCN>
                                                                                                                                                                                                                                                                                                                                                                               A; Status: nucleic acid sequence not shown
                                                                                        A; Residues: 1871-1935
                                                                                                                      A; Molecule type: mRNA
                                                                                                                                                 A; Status: translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                   A; Molecule type: mRNA
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5; Conser
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62.5%;
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Pred. No. 1.
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A;Title: Molecular characterization of two myosin heavy chain genes expressed A;Reference number: A02988; MUID:82220036
A;Accession: A02989

in the

adu

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A; Molecule type: mRNA
A; Molecule type: mRNA
A; Residues: 1524-1528, 'V',1530,'R',1532-1730,'H',1732-1783,'K',1785-1850,'N',1852-1857,
A; Residues: 1524-1528, 'V',1530,'R',1532-1730,'H',1732-1783,'K',1785-1850,'N',1852-1857,
A; Cross-references: GB.J00752; NID:9205577; PIDN:AAAA1654.1; PID:9205578
C; Keywords: actin binding; myosin motor domain homology
C; Keywords: actin binding; ATP; Cardiac muscle; coiled coil; heart; hydrolase; methylat.
F; 88-765,Domain: myosin motor domain homology <MMOT>
F; 178-185/Region: nucleotide-binding motif A (P-loop)
F; 548-585/Region: actin binding #status predicted
F; 639-1935/Domain: coiled coil #status predicted
F; 839-1935/Domain: coiled coil #status predicted
F; 839-1935/Region: 11ght meromyosin
F; 1280-1935/Region: 11ght meromyosin
C;Accession: 138055; JH0154; S12459; S09332; A30220; S R;Jullian, E.H.; Kelly, A.M.; Pompidou, A.J.; Hoffman, Eur. J. Biochem. 230, 1001-1006, pp 95
A;Title: Characterization of a human perinatal myosin A;Reference number: 138055; MUID:95324556
A;Accession: 138055
A;Status: preliminary; translated from GB/EMBL/DDBJ A;Molecule type: mRNA A;Residues: P-1937 <RES>
                                                                                                                                                                                              C;Species: Homo sapiens (man)
C;Date: 17-May-1996 #sequence_revision 17-May-1996 #text_change 02-Feb-2001
C;Accession: I38055; JH0154; S12459; S09332; A30220; S49478
C;Accession: I38055; JH0154; S12459; S09332; A30220; S49478
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A;Accession: A59286
A;Status: preliminary; not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 1-1935 <KO1>
A;Cross-references: GB:U75316; NID:g1698894; PIDN:AAB37320.1; PID:g1698895
A;Experimental source: strain domestica
                                                                                                                                                                                                                                                                                           myosin heavy chain, perinatal skeletal muscle -
N;Contains: myosin ATPase (EC 3.6.1.32)
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C; Species: Sus scrofa
C; Date: 09-Jun-2000 #s
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#sequence_revision 09-Jun-2000 #text_change 08-Sep-2000
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62.5%;
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Pred. No. 1.2e+02;
2; Mismatches 1
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A; Accession: S06005

translation not shown

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C;Species: Rattus norvegicus (Norway rat)
C;Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_c
C;Accession: S06005; S07535; A20971; A02998; I53305
R;McNally, E.M.; Gianola, K.M.; Leinwand, L.A.
Nucleic Acids Res. 17, 7527-7528, 1989
A;Title: Complete nucleotide sequence of full length cDNA
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C;Superfamily: myosin heavy chain; myosin motor domain l
C;Superfamily: myosin heavy chain; myosin motor domain l
C;Keywords: actin binding; ATP; coiled coil; hydrolase;
F;91-769/Domain: myosin motor domain homology <MMOT>
F;181-188/Region: nucleotide binding motif A (P-loop)
                                                                                                                                                                                                             N;Alternate names: alpha-myosin heavy chain N;Contains: myosin ATPase (EC 3.6.1.32)
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R;Feghall, R.; Leinwand, LA.
J. Cell Biol. 108, 1791-1797, 1989
A;Title: Molecular genetic characterization
A;Reference number: A30220; MUID:89234168
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R;Karsch-Mizrachi, I:; Feghali, R.; Shows, T.B.; Leinwand, L.A.
Gene 89, 289-294, 1990
A;Title: Generation of a full-length human perinatal myosin heavy-chain-encoding cDNA
A;Reference number: JH0154; MUID:90323631
A;Reference number: JH0154; MUID:90323631
A; Reference number: S06005; MUID: 90016822
                                                                                                                                                                                                                                                                       myosin alpha heavy chain, cardiac muscle [similarity] - rat
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A;Residues: 860-969,'Q',971-1246,'H',1248-1260,'G',1262-1296,'Q',1298-1503,'AH',1506-
A;Cross-references: GB:Y00821; NID:g34863; PIDN:CAA68757.1; PID:g34864
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A; Residues: 502-547,'X',549-617,'X',619-687,'X',689-757,'X',759-827,'X',829-897,'X',8
-1376,'NT',1379-1386,'X',1388-1456,'X',1458-1526,'X',1528-1596,'X',1598-1666,'X',1668
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A; Residues: 502-1071, 'N', 1073-1250, 'DGG', 1253-1376, 'NT', 1379-1913, 'D', 1915-1937 <BOB>
A; Cross-references: EMBL: X51592; NID: g29465; PIDN: CAA35941.1; PID: g29466
A; Experimental source: clone gtMHC-F
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Eur. J. Biochem. 189, 55-65, 1990
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A; Residues: 1-14, 'A', 16-859 <KAR>
A; Cross-references: GB: Y00821
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62.5%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 36; DB Pred. No. 1.3e 2; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .3e+02;
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                                                                                                                                                      #text_change 19-Jan-2001
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                                    for
                                    rat alpha
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                                 cardiac myosi
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myosin heavy chain, fast skeletal muscle, adult [validated] - chicken N;Contains: myosin ATPase (FC 3.6.1.32) C;Species: Gallus gallus (chicken) C;Species: Gallus gallus (chicken) C;Accession: Px0050; Px0051; Px0052; Jx0178; A26385; S02082; PW0009; S39081; C;Accession: Px0050; Px0051; Px0052; Jx0178; A26385; S02082; PW0009; S39081; R;Hayashida, M.; Maita, T.; Matsuda, G.

J. Blochem. 110, 54-59, 1991
A;Reference number: Px0050; MUID:92041767
A;Recession: Px0050
A;Molecule type: protcin
A;Residues: 1-205 <HAY'>
R;Komine, Y.; Maita, T.; Matsuda, G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  F:847-767/Domain: myosin motor domain homology <MMOT>
F:177-184/Region: nucleotide-binding motif A (P-loop)
F:5178-884-585/Region: actin binding #status predicted
F:566-678/Region: actin binding #status predicted
F:840-1938/Domain: colled coll #status predicted <COI>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C; Superfamily: myosin heavy chain; myosin motor domain C; Keywords: actin binding; ATP; cardiac muscle; coiled
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A; Residues: 1872-1933, 'I', 1935-1938 <RES>
A; Cross-references: GB: M32697; NID: 9205596; PIDN: AAA41658.1; PID: 9205597
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Title: Molecular characterization of two myosin A;Reference number: A02988; MUID:82220036 A;Accession: A02988
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A; Residues: 1-12, 'AP', 14-45, 'A', 47-50, 'AP', 53-81, 'E', 83-86, 'Q', 88-109, 111-133, 'H', 135-16
R; Mahdavi, V.; Periasamy, M.; Nadal-Ginard, B.
Nature 297, 659-664, 1982
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A; Residues: 1-1938 «MC2>
R; Mahdavi, V.; Chambers, A.P.; Nadal-Ginard, B.
Proc. Natl. Acad. Sci. U.S.A. 81, 2626-2630, 1984
A; Title: Cardiac alpha- and beta-myosin heavy chain genes are organized in tandem.
A; Reference number: A20971; MUID: 84194059
A; Accession: A20971
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A;Accession: S07535
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                                                                                                                                                                                                                                                                                                                                                                                                                                       밁
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R; Watanabe, B.
R; Watanabe, B.
A; Title: Amino-acid sequence of the short some content of the short some content of the short some content of the short some number: $04501; MUID: 89374803
                                                                                                                                                                                                                                                                R:Watanabe, B.
Biol. Chem. Hoppe-Seyler 370, 1027-1034, 1989
Biol. Chem. Hoppe-seyler 370, 1027-1034, 1989
A:Title: Complete amino-acid sequence of subfragment-2
A:Reference number: S05515; MUID:90121764
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Biol. Chem. Hoppe-Seyler 370, 55-61, 1989
A;Title: Amino-acid sequence of the hinge
A;Reference number: S02082; MUID:89228549
A;Accession: S02082
A;Molecule type: protein
A;Residues: 1144-1270 <WAT>
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Proc. Natl. Acad. Sci. U.S.A. 84, 416-420, 19
A;Title: The primary structure of the myosin
A;Reference number: A26365; MUID:87092420
A;Accession: A26365
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A; Residues: 201-213;632-837 <MAI>
R; Maita, T.; Yajima, E.; Nagata, S.; Miyani
J. Biochem. 110, 75-87, 1991
A; Title: The primary structure of skeletal
A; Reference number: JX0178; MUID:92041770
A; Accession: JX0178
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R;Maita, T.; Miyanishi, T.; Matsuzono, K.;
J. Biochem. 110, 68-74, 1991
A;Title: The primary structure of skeletal
A;Reference number: PX0052; MUID:92041769
A;Accession: PX0052
                                                                                                                                                                                                                                                                                                                                                                A;Molecule type: mrNA
A;Residues: 1082-1182,'T',1184-1203,'DV',1206-1342,'E',1344-1544,'S',1546-1780,'M'
A;Cross-references: EMBL:M74084
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  R; Moore, L.A.; Arrizubieta, M.J.; Tidyman, W.J. Mol. Biol. 225, I143-1151, 1992
A; Title: Analysis of the chicken fast myosin A; Reference number: S24348; MUID:92309413
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R:Moore, L.A.; Arrizubieta, M.J.; Tidyman, W.E.; Herman, submitted to the EMBL Data Library, August 1991 A:Description: Analysis of the chicken fast myosin heavy A:Reference number: S39081
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A; Molecule type: protein
A; ResLdues: 852-906, 'Q', '908-1108 <WA2>
R; Matsuda, G; Maita, T.; Miyanishi, T
J. Protein Chem. 6, 33-46, 1987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Molecule type: mRNA
A;Residues: 1081-1203,'DV',1206-1342,'E',1344-1544,'S',1546-1795,'HV',1798-1829,'S',1
A;Cross-references: EMBL:M74084
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A;Title: Study on tail region
A;Reference number: PW0009
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    R;Yajima,
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Biol. Chem.
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A; Residues: 833-1938 <MA2>
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A; Residues: 842-906,'Q',908-1270 <WA3>
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of skeletal
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20, 1987
                      Hayashida,
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A; Residues: 'M', 1-56, 'T', 58-76, 'I', 78-168 < KRO>
A; Cross-references: GB:M13515; GB:M13511; NID:g212373; PIDN:AAAA48971.1; PID:g555468
C; Comment: This is a fragment of the globular head.
C; Supperfamily: myosin heavy chain; myosin motor domain homology
C; Reywords: acetylated amino end; actin binding; ATP: colled coil; hydrolase; methylated
F; 1-1938/Product: myosin motor domain homology < CKPY-1938/Product: myosin motor domain homology < CKPY-1938/Product: myosin motor domain homology < CKPY-1938/Product: myosin motor domain homology < CKPY-1940/Product: myosin motor domain homology < CKPY-1940/Product: myosin motor domain homology < CKPY-1940/Product: myosin motor domain homology </p>
F; 1957-587/Region: actin binding #status predicted
F; 841-1938/Domain: colled coil < CCOIP
F; 841-1289/Region: S2
F; 852-1108/Domain: short subfragment 2 < SUB2>
F; 1290-1938/Region: light meromyosin
F; 1780-1938/Region: light meromyosin
F;
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A; Residues: 1-1938 <RESS-
A; Cross-references: GB:M76601; NID:g191623; PIDN:AAA37162.1;
A; Accession: 149463
A; Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C;Species: Mus musculus (house mouse)
C;Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 02-Feb-2001
C;Accession: 149464; 149463; 149463; 149461; 149464
R:Quinn-Laquer, B.K.; Kennedy, J.E.; Wei, S.J.; Beisel, K.W.
Genomics 13, 176-188, 1992
A;Title: Characterization of the allelic differences in the mouse cardiac a A;Reference number: A38207; MUID:92250040
A;Accession: 149464
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J. Biol. Chem. 261, 6613-6618, 1986
A;Title: A canonical sequence organization at the 5'-end of the myosin heavy chain A;Reference number: A92587; MUID:86196091
A;Accession: C25217
A;Molecule type: DNA
A;Residues: 'M',1-56,'T',58-76,'I',78-168 <KRO>
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J. Biol. Chem. 260, 14513-14520, 1985
A;Title: The structure of two fast-white myosin heavy chain promoters. A comparative A;Reference number: A92507; MUID:86033956
A;Recession: A24124
A;Molecule type: mRNA
A;Residues: 1-193,'D', 195-837,'S', 839-955,'N', 957-1938 <RE2>
A;Cross-references: GB:M76600; NID:g191621; PIDN:AAA37161.1;
A;Accession: 149462
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
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A; Residues: 1-139,141-205 <MA1>
R; Gulick, J.; Kropp, K.; Robbin
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A; Residues: 'M', 1-168 <GUL>
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Pred. No. 1.3e+02;
2; Mismatches 1
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myosin alpha heavy chain, cardiac muscle - human
N;Contains: myosin ATPase (EC 3.6.1.32)
C;Species: Homo sapiens (man)
C;Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 19-Jan-2001
C;Accession: A46762; B46762; A49354; S18830; B32562; B33835; B27858; A28908
C;Accession: A46762; B46762; Furutani, M.; Arai, S.; Takao, A.
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              R;Matsuoka, R.; Beisel, K.W.; Furutani, M.; Arai, S.; Takao, A. Am. J. Med. Genet. 41, 537-547, 1991
A;Title: Complete sequence of human cardiac alpha-myosin heavy chain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Residues: \bar{1}-1938 <MAE> A; Cross-references: GB:U32574; NID:g940232; PIDN:AAA74199.1; PID:g940233 A; Experimental source: strain New Zealand White; cell type skeletal musc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             skeletal myosin heavy chain - domestic rabbit C; Species: Oryctolagus cuniculus C; Date: 09-Jun-2000 #sequence_revision 09-Jun
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J. Biol. Chem. 266, 9180-9185, 1917
A;Title: Isolation and characterization of
A;Reference number: I49604; MUID:91225025
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A; Molecule type: mRNA
A; Residues: 1-544,'A',546-1938 < RE4>
A; Cross-references: GB: M76598; NID: g191617;
A; Cross-references: GB: M76598; NID: g191617;
A;Reference
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A; Residues: 1-1938 <M
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A; Accession: A59293
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A; Residues: 1-67 < RE5>
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                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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A46762;
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62.5%;
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C:Superfamily: myosin heavy chain; myosin motor domai C:Kcywords: actin binding; ATP; cardiac muscle; college; 88-768/Domain: myosin motor domain changles; college; 88-768/Domain: myosin motor domain homology <a href="https://www.myosin.nucleotide-binding">https://www.myosin.nucleotide-binding motif A (P-loop) F:549-586/Region: actin binding #status predicted F:657-679/Region: actin binding #status predicted F:841-1939/Domain: colled coll #status predicted F:841-181/Region: 32 F:1282-1939/Region: 119ht mercomyosin F:129/Modified site: N6,N6,N6-trimethyllysine (Lys) #
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A; Residues: 1-3,'5',5-10,'T',12,14-67 <SAE>
R; Kurabayashi, M; Tsuchimochi, H.; Komuro,
J. Clin. Invest. 82, 524-531, 1988
A; Title: Molecular cloning and characteriza
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Molecule type: DNA
A;Moslecus: 1-87,'Q',89-177;1551-1732,'E',1734-1736,'T',1738-1762,'D',1764-1939
A;Residues: 1-87,'Q',89-177;1551-1732,'E',1734-1736,'T',1738-1762,'D',1764-1939
R;Suez, L.J.; Glanola, K.M.; McNally, E.M.; Feghali, R.; Eddy, R.; Shows, T.B.;
Nucleic Acids Res. 15, 5443-5459, 1987
Nucleic Acids Res. 15, 5443-5459, 1987
A;Title: Human cardiac myosin heavy chain genes and their linkage in the genome.
A;Reference number: A93669; MUID:87260010
A;Accession: B27858
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A:Residues: 1-87,'Q',89-177;1551-1732,'E',1734-1736,'T',1738-1762,'D',1764-1848
R:Yamauchi-Takihara, K.; Sole, M.J.; Liew, J.; Ing, D.; Liew, C.C.
Proc. Natl. Acad. Sci. U.S.A. 86, 7416-7417, 1989
A;Reference number: A94226
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A;Titlo: Characterization of human cardiac myosin heavy chain A;Reference number: A94224; MUID:89264452
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R;Brand, N.J.; Dabhade, N.; Yacoub, M.; Barton, P.J.R.
Biochem, Blophys. Res. Commun. 179, 1255-1258, 1991
A;Title: Determination of the 5' exon structure of the human cardiac alpha-myosin
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A;Residues: 1407-1532,'N',1534-1539,'M',1541-1576,'NV',1579-1704,'EQ',1707-1762,'D',1764
A;Cross-reforences: GB:M21664; NID:g189006; PIDN:AAA36344.1; PID:g386972
A;Experimental source: fetal heart
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A; Residues: 1-32 <BRA>
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                                                                                                                                                                                                                                                                                                                 A; Map position: 14q11.2-14q13
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                                                                                                                                                                                                                                                   Superfamily: myosin heavy chain; myosin motor domain Keywords: actin binding; ATP; cardiac muscle; coiled
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C.C.
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myosin heavy chain 3, skeletal muscle, embryonic - human N;Contains: myosin ATPase (EC 3.6.1.32) (Species: Homo sapiens (man) (C;Species: Homo sapiens (man) (C;Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 19-Jan-2001 (C;Accession: $04090; $06146; $05442; $12460; $0933; A35082 (C;Accession: $104090; $06146; $05442; $12460; $09333; A35082 (C;Accession: $17, 3591-3592, 1989) (Nucleic Acids Res. 17, 3591-3592, 1989)
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S04090
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A;Title: Characterization and nucleotide sequence A;Reference number: I48153; MUID:95115033
A;Accession: I48175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              myosin heavy chain alpha, cardiac muscle [similarity] - golden | C;Species: Mesocricetus auratus (golden hamster) | C;Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change
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148175
                                                 A;Molecute 'yr'...
A;Residues: 1-1940 <ELL>
A;Cross-references: EMBL:X13988; NID:g34843;
A;Cross-references: EMBL:X13988; NID:g34843;
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A;Accession: A23938
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A; Residues: 1630-1843,'R',1845-1878,'T',1880-1927,'N',1929-1932,1934-1939
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A;Cross-references: GB:L15351; NID:g402373; PIDN:AAB59701.1;
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                     A; Title:
                                               FEBS Lett.
                                                                                                                                                          A; Status: translation not
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Human embryonic myosin heavy chain nce number: S06146; MUID:90033298
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                                          Stedman, H.H.;
56, 21-28, 1989
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Pred. No. 1.3e+02;
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Pred. No. 1.3e+02;
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                       CDNA.
                                                                  PIDN:CAA32167.1; PID:g34844
Fertels, S.H.; Wu, Q.L.; Ray
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                       Interspecies sequence conservation
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                                                                Q.L.; Raychowdhury,
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A;Cross-references: GDB:119443; OMIM:160720
A;Map position: 17p13.1-17p13.1
C;Superfamily: myosin heavy chain; myosin motor domain homology
C;Keywords: actin binding; ATP; coiled coil; hydrolase; methylated amino acid; muscle fs.9-767/Domain: myosin motor domain homology cawOTP>
F;89-767/Domain: myosin motor domain homology cawOTP>
F;179-186/Region: nucleotide-binding motif A (P-loop)
F;549-586/Region: actin binding #status predicted
F;656-678/Region: actin binding #status predicted
F;840-1940/Domain: coiled coil #status predicted
F;840-1280/Region: S2
F;1981-1040/Domain: Coiled coil #status predicted <COI>
F;1981-1040/Domain: Coiled coil #status predicted
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A; Rolecule type: mRNA
A; Residues: 856-1330, 'G', 1332-1390, 'KK', 1393-1607, 'RA', 1610-1940 <BOB>
A; Residues: EMBL: X51593; NID: g29463; PIDN: CAA35942.1; PID: g29464
A; Cross-references: EMBL: X51593; NID: g29463; PIDN: CAA35942.1; PID: g29464
A; Experimental source: clone gtMHC-E
R; Bobber, E.; Buchberger-Seidl, A.; Braun, T.; Singh, S.; Goedde, H.W.; A
Eur. J. Biochem. 189, 55-65, 1990
Eur. J. Biochem. 189, 55-65, 1990
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A;Residues: 856-1390, 'KK',1393-1940 <KAR>
A;Residues: 856-1390, 'KK',1393-1940 <KAR>
A;Cross-references: EMBL:X15696; NID:g36504; PIDN:CAA33731.1; PID:g1335313
A;Cross-references: EMBL:X15696; NID:g36504; PIDN:CAA33731.1; PID:g1335313
A;Stedman, H.H.; Eller, M.; Jullian, E.H.; Fertels, S.H.; Sarkar, S.; Sylvester, J.E.; P.
J. Biol. Chem. 265, 3568-3576, 1990
A;Title: The human embryonic myosin heavy chain. Complete primary structure reveals evol
A;Reference number: A35082; MUID:90154023
A;Contents: annotation; Chromosomal assignment
R;Bober, E.
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F;130/Modified site: N6,N6-trimethyllysine (Lys) #status predicted
F;185/Binding site: ATP (Lys) #status predicted
F;696,706/Active site: Cys #status predicted
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A; Residues: 856-901, 'x', 903-971, 'x', 973-1041, 'x', 1043-1111, 'x', 1113-1181, 'x', 1183-1251,
1, 'x', 1673-1741, 'x', 1743-1811, 'x', 1813-1881, 'x', 1883-1940 <BOW>
A; Cross-references: EMBL: X51593
C; Genetics:
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A;Molecule type: mRNA
A;Molecule type: mRNA
A;Residues: 774-1662, 'QT',1665-1940 <BL2>
A;Cross-references: EMBL:X13100; NID:g31143; PIDN:CAA31492.1; PID:g31144
A;Cross-references: EMBL:X13100; NID:g31143; PIDN:CAA31492.1; PID:g31144
A;Karsch-Mizrachi, I: Travis, M.; Blau, H.; Leinwand, L.A.
Nucleic Acids Res. 17, 6167-6179, 1989
Nucleic Acids Res. 17, 6167-6179, 1989
A;Title: Expression and DNA sequence analysis of a human embryonic skeletal muscle myosi
A;Reference number: S05442; MUID:89366648
Search completed: January 14, Job time: 96 sec
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Eur. J. Biochem. 189, 55-65, 1990
A;Title: Identification of three developmentally controlled isoforms of A;Reference number: S09331; MUID:90235862
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Science 286:1571-1577(1999).
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Pfam; PF00082; Peptidase_S8; 1.
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RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,
RA Shue B.C., Siden Kiamos I., Simpson M., Skupski M.P., Smith T.,
RA Wang Z.-Y. Wassarman D.A., Weinstock G.M., Weissenbach J.,
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RA Wang S., Yao Q.A.,
RA Yel, Yeh R.-F., Zaveri J.S., Zhan M., Zhu S., Zhu X., Smith H.O.,
RA Zheng X.H., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,
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01-MAY-2000
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Adams M.D., Celniker S.E., Holt R.A., Hoskins R.A., Galle R.F.,
Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
Sutton G.G., Wortman J.R., Yandell M.D., Zhang O., Chen L.X.,
Brandon R.C., Rogers Y.-H.C., Blazej R.G., Champe M., Pfeiffer B.D.,
Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
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Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
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Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., William R.R., Wi
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
PRINTS; PR00249; GPCRSECRETIN.

PROSITE; PS50261; G_PROTEIN_RECEP_F2_4; 1.

SEQUENCE 423 AA; 48820 MW; C30ED3CC4C87AF1F CRC64;
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NCBI_TaxID=7227;
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Q9BQM6
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Query Match
Best Local Similarity
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Best Local
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                                                                                                           Pfam; PF00063; myosin_head; 1.
ProDom; PD000355; myosin_head; 1.
CONFLICT 68 68 A ->
NON_TER 151 151
                                                                                                                                                                                                                            skeletal myosin heavy chain gene and J. Cell Sci. 108:1779-1789(1995).
EMBL; U11772; AAC48465.2; -.
EMBL; U11771; AAC48465.1; -.
EMBL; U11771; AAC48465.1; -.
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Q29623;
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Q1-JUN-2001 (TrEMBLrel. 17, Created)
Q1-JUN-2001 (TrEMBLrel. 17, Last sequence update)
Q1-JUN-2001 (TrEMBLrel. 17, Last annotation update)
DJ756N5.1.2 (CONTINUES IN EM:AL133324 AS DJ1161H23.3 ) (FRAGMENT).
DJ756N5.1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sus scrofa (Pig).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NON_TER
                                                                                                                                                                                                                                                                                                                                                                                             STRAIN-LARGE WHITE/LANDRACE CROSS; TISSUE-SKELETAL MUSCLE; MEDLINE-95340706; PubMed-7615692;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last annotation updat
MYOSIN HEAVY CHAIN (FRAGMENT).
                                                                                           SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                         Chang K., Fernandes K.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mammalia; Eutheria; Primates;
NCBI_TaxID=9606;
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Homo sapiens (Human).
Homo sapiens (Human).
Chordata;
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                                                                                                                                                                                                                                                                                                                            "Molecular characterization of a developmentally regulated porcine skeletal myosin heavy chain gene and its 5' regulatory region.";
                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NCBI_TaxID=9823
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Mammalia; Eutheria;
                                                                                                                                                                                                         InterPro; IPR001609; myosin_head
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              SEQUENCE FROM N.A.

MEDLINE-86196091; PubMed-3009465;

Kropp K., Gulick J., Robbins J.;

"A canonical sequence organization chain genes.";

J. Biol. Chem. 261:6613-6618(1986).
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MEDLINE-88059036; PubMed=2824498;

Kropp K.E., Gulick J., Robbins J.;

"Structural and transcriptional analysis of a chicken myosin heavy chain gene subset.";

J. Biol. Chem. 262:16536-16545(1987).

EMBL; M18139; AAA48973.1; -.

HSSP; P08799; ILVK.
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Gallus gallus (Chicken).
Eukaryota; Mctazoa; Chordata; Cranlata; Vertebrata; Euteleostomi,
Eukaryota; Mctazoa; Neognathae; Galliformes; Phasianidae; Phasianinae;
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01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
MYOSIN HEAVY CHAIN (FRAGMENT).
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                                                                                                                                                                                           SEQUENCE FROM N.A.

MEDILINE-86196090; PubMed-3009464;

Robbins J., Horan T., Gulick J., Kropp K.;

"The chicken myosin heavy chain family.";

J. Biol. Chem. 261:6606-6612(1986).
                                                                                                                                                                                                                                                                                                                                                                                 01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
FAST-WHITE MYOSIN HEAVY CHAIN (FRAGMENT).
Gallus gallus (Chicken).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Barchosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
  EMBL;
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ProDom; PD000355; myosin_head; 1.
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  ol. Chem. 261:6613-6
M13513; AAA48965.1;
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Q1-NOV-1996 (TrEMBLrel. 01, Created)
Q1-NOV-1996 (TrEMBLrel. 01, Last sequence update)
Q1-UN-2001 (TrEMBLrel. 17, Last annotation update)
FAST-WHITE MYOSIN HEAVY CHAIN (ADULT ISOFORM) (FRAGMENT).
Gallus gallus (Chicken).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutel
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SEQUENCE
                                                                                                                                                 SEQUENCE FROM N.A.

MEDILINE-8603395; PubMed-2997212;

Gulick J., Kropp K., Robbins J.;

"The structure of two fast-white myosin heavy comparative study.";

J. Biol. Chem. 260:14513-14520(1985).

EMBL; M13512; AAA48966:1; -.

HSSP; P08799; 1LVK.
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                                                                                                                    InterPro; IPR001609; myosin_head.
Pfam; PF00063; myosin_head; 1.
ProDom; PD000355; myosin_head; 1.
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"A canonical sequence organization at
chain genes.";
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Interpro; IPR001609; myosin_head.
Pfam; PF00063; myosin_head; 1.
ProDom; PD000355; myosin_head; 1.
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01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
FAST WHITE MYOSIN HEAVY CHAIN (FRAGMENT).
                                        J. Biol. Chem. 261:6613-6618(1986).
EMBL; M13515; AAA48971.1; -.
HSSP; P08799; 1LVK.
InterPro; IPR001609; myosin_head.
                                                                                                                                                                                   MEDLINE=86196091; PubMed=3009465;
Kropp K., Gulick J., Robbins J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gallus gallus (Chicken).
Eukaryota; Metazoa; Chordata; Craniata;
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J. Biol. Chem. 261:6613-6618(1986)
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01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
FAST-WHITE MYOSIN HEAVY CHAIN (FRAGMENT).
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MEDLINE=86196091; PubMed=3009465;
Kropp K., Gulick J., Robbins J.;
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                       Pfam; PF00063;
                                                                                                                                                         "A canonical sequence organization
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Pfam; PF00063; myosin_head; 1.
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chicken myosin heavy chain family.";
iol. Chem. 261:6606-6612(1986).
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5; Conserv
PD000355; myosin_head;
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169 AA;
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                       myosin_head;
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RESULT 11
Q9NWE2
ID Q9NWE2;
AC Q9NWE2;
AC Q9NWE2;
AC Q9NWE2;
DT 01-OCT-2000 (
DT 01-JUN-2001 (
DE HYPOTHETICAL
OS HOMO Sapiens
OC Eukaryota; Me
OC Eukaryota; Me
OC Mammalia; Eut
OX NCBI_TaxID-96
RN [1]
RP SEQUENCE FROW
RC TISSUE-EMBRYC
RA Isogai T., Ot
RA Nishikawa T.,
RA Mishikawa T.,
RA Makamatsu A.,
Nat
RA Wakamatsu A.,
NAT MEDO human C
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Best Local :
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"In vivo expression and molecular char
slow-myosin heavy chain.";
J. Cell Sci. 106:331-341(1993).
EMBL; L10129; AAC37313.1; -.
HSSP; P08799; LIVK.
Interpro; IPR001609; myosin_head.
Pfam; PF00063; myosin_head; 1.
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Q29107;
Q1-NOV-1996
                                                                                                                                                         01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last annotation updat
HYPOTHETICAL 20.4 KDA PROTEIN.
Homo sapiens (Human)
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NON_TER
SEQUENCE
Isogai T., Ota T., Hayashi K., Sugiyama T., Otsuki T., Suzuki Y., Nishikawa T., Nagai K., Sugano S., Takahashi-Fujii A., Hara H., Tanase T., Nomura Y., Togiya S., Komai F., Hara R., Takeuchi K., Arita M., Nabekura T., Ishii S., Kawai Y., Saito K., Yamamoto J., Wakamatsu A., Nakamura Y., Nagahari K., Masuho Y., Oshima A.; "NEDO human cDNA sequencing project.";
                                                                                                                   Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=9606;
                                                                                TISSUE=EMBRYO;
                                                                                           SEQUENCE FROM N.A.
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NON_TER 175 175
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Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
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                                                                                                                                                                                                                                                                                                        112 WMIYTYSG
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19297 MW;
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62.5%;
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095558;
01-MAY-1999
01-MAY-1999
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Bonfield J., Burton J., Connell M., Copsey T., Coulson /
Craxton M., Dear S., Du Z., Durbin R., Favello A., Fulton L.,
Gardner A., Green P., Hawkins T., Hillier L., Jier M., Johnston L.,
Jones M., Kershaw J., Kirsten J., Laister N., Latreille P.,
Lightning J., Lloyd C., Memurray A., Mortimore B., O'Callaghan M.,
Parsons J., Percy C., Rifken L., Roopra A., Saunders D., Shownkeen
Smaldon N., Smith A., Sonnhammer E., Staden R., Sulston J.,
Thierry-Mieg J., Thomas K., Vaudin M., Vaughan K., Watterston R.,
Watson A., Weinstock L., Wilkinson-Sproat J., Wohldman P.;
"2.2 M of contiguous nucleotide sequence from chromosome III of C
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Q93765;
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Pfam; PF00063; myosin_head; 1.
PRINTS; PR00193; MYOSINHEAVY.
ProDom; PD000355; myosin_head; 1.
SEQUENCE 176 AA; 20442 MW; 91A61F7A24A55CA2 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A. MEDLINE-94150718; PubMed-7906398;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditidae; Peloderinae; Caenorhabditis. NCBI_TaxID=6239;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-FEB-1997 (TrEMBLrel. 02, Created)
01-FEB-1997 (TrEMBLrel. 02, Last sequence update)
01-JAN-1999 (TrEMBLrel. 09, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Submitted (FEB-2000) to the EMBL/GenBank/DDBJ databases EMBL; \alpha AK000947; \alpha BAA91440.1; -.
          01-MAY-1999 (TrEMBLrel. 10, Created)
01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
01-MAY-1999 (TrEMBLrel. 10, Last annotation update)
HYPOTHETICAL 43.9 KDA PROTEIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Submitted
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Caenorhabditis elegans
                                                                                                                                                                                                                                                                             Nature 368:32-38(1994).
EMBL; Z79756; CAB02120.1; -.
SEQUENCE 307 AA; 34281 MW;
                                                                                                                                                                                                                                                                                                                       elegans.";
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nes 6; Conserv
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75 WKIYVYDG 182
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 supiens
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                                                                                  PRELIMINARY;
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75.0%;
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Pred. No. 31;
                                                                                                                                                                                                                        Score 36;
Pred. No.
                                                                                                                                                                                                                                                                                8D285E7600C97B08 CRC64;
                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                   372
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57;
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RESULT
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Best Local
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Best Local
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091495;
01-NOV-1996 (TrEMBLEEL 0
01-NOV-1996 (TrEMBLEEL 0
01-JUN-2001 (TrEMBLEEL 1
                                                                                                                                                                                                                                                                         Myosin.
                                         Q28701;
01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
EMBRYONIC/NEONATAL MYOSIN HEAVY CHAIN (FRAGMENT).
                                                                                                                                                                                                                                                                                                         InterPro; IPR001609; myosin_head
Pfam; PF00063; myosin_head; 1.
PRINTS; PR00193; MYOSINHEAVY
                                                                                                                                                                                                                                                                                                                                         "Primary Structure of Walleye Pollack Myosin is Submitted (JUN-1996) to the EMBL/GenBank/DDBJ EMBL; D85857; BAA12887.1; -.
HSSP: P08799; 11VK.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Theragra chalcogramma.

Theragra chalcogramma.

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei

Actanthomorpha; Paracanthopterygii; Gadiformes; Gadoidei; Gadidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Submitted (JAN-1999) to the EMBL; ALO35122; CAA22684.1; Hypothetical protein. SEQUENCE 372 AA; 43900 MW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa;
Mammalia; Eutheria;
                    Oryctolagus cuniculus (Rabbit).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                                                  028701
                                                                                                                                                                                                                                                              SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
TISSUE-SKELETAL MUSCLE;
                                                                                                                                                                                                                                                                                                                                                                                                                                               Theragra
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MYOSIN HEAD (FRAGMENT).
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                                                                                                                                                                                                                                                                                              ProDom;
                                                                                                                                                                                                                                                                                                                                                                                       Nishita K.;
                                                                                                                                                                                                                                                                                                                                                                                                                                   NCBI_TaxID=48550;
          Mammalia; Eutheria;
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                                                                                                                                                         1 WKIYSYAG 8
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34 WMIYTYSG 41
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                                                                                                                                                                                                     h 75.0%;
Similarity 62.5%;
5; Conservative
                                                                                                                                                                                                                                                                                               PD000355; myosin_head;
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                                                                                                                                                                                                                                                             411
411 AA;
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                                                                                                   PRELIMINARY;
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                                                                                                                                                                                                                                                                           411
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Primates;
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         Lagomorpha;
                                                                                                                                                                                                                                                              46449
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01,
17,
                                                                                                                                                                                                                                                              MW;
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Last sequence update)
Last annotation update)
                                                                                                                                                                                                      Score 36; DB Pred. No. 78; 2; Mismatches
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                                                                                                                                                                                                                                                              32120B96D228CA81 CRC64;
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          Leporidae;
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NO. 70;
                                                                                                                                                                                                              DB
78;
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          Oryctolagus
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RESULT
Q918N4
ID Q9
AC Q9
DT Q1
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Best Local Similarity
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013143
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Best Local :
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                    O918N4;
O1-OCT-2000 (TrEMBLrel. 15, Created)
O1-OCT-2000 (TrEMBLrel. 15, Last sequence update)
O1-JUN-2001 (TrEMBLrel. 17, Last annotation update)
TYPE 2 MYOSIN HEAVY CHAIN (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            013143;
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Jaenicke T., Goldspink G.;
Submitted (JUN-1994) to the EMBL/GenBank/DDBJ
EMBL; Z34849; CAA84358.1; -.
HSSP; P08799; 1MMD.
InterPro; IPRO101609; myosin_head.
Pfam; PF00063; myosin_head; 1.
PRINTS; PR00193; MYOSINHEAVY.
                                                                                                                                                  Q918N4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              InterPro; IPRO01609; myosin_head.
InterPro; IPRO01609; Thiolprot_act_site.
Pfam; PF00063; myosin_head; 1.
PRINTS; PR00193; myosin_head; 1.
PRODOM; PD000355; myosin_head; 1.
PROSITE; PS00639; THIOL_PROTEASE_HIS; UNKNOWN_1.
NON_TER 576 576
ST6 576 SAA; 65675 MW; 8B1779BB094006C2 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
DiMario J.X., Stockdale F.E.,
Dev. Biol. 0:0-0(0).
EMBL; AF006829; AAB61475.1; --
HSSP; P08799; IMND.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-JUL-1997 (TrEMBLrel. 04, Created)
01-JUL-1997 (TrEMBLrel. 04, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
SLOW MYOSIN HEAVY CHAIN 2 (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Coturnix coturnix japonica (Japanese quail).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Archosauria; Aves;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ProDom; PD000355; myosin_head; 1.
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                                                                                                                                                                                                                                                                           112 WMIYTYSG 119
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pipiens
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5; Conser
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571 AA;
                                                                                                                                                  PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                          Conservative
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(Northern leopard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 120
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65105 MW;
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                                                                                                                                                                                                                                                                                                                                                                                               75.0%;
62.5%;
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62.5%;
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                                                                                                                                                                                                                                                                                                                                                                                               Score 36;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 36; DB 6; L6
Pred. No. 1.1e+02;
2; Mismatches 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8B1779BB094006C2 CRC64;
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                                 Query Match
Best Local ?
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Best Local
                                                                                                                                                                                                                                                                           Pfam; PF00612; IQ; 1.
Pfam; PF00063; myosin_head; 1.
Pfam; PF00063; myosin_head; 1.
PRINTS; PR001935; myosin_head; 1.
SMART; SM00015; IQ; 1.
SMART; SM000242; MYSC; 1.
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InterPro; IPR001609; myosin_head.
Pfam; pF00612; IQ; 1.
Pfam; pF00063; myosin_head; 1.
Pfam; pF00003; myosin_head; 1.
PRINTS; PR00193; MYOSINHEAVY.
PRODOM; PD000355; myosin_head; 1.
SMART; SM00015; IQ; 1.
SMART; SM00015; IQ; 1.
SMART; SM00242; MYSG; 1.
PROSITE; PS50096; IQ; 1.
NON_TER 840 840
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Q918N3;
01-OCT-2000
01-OCT-2000
01-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gene 250:97-107(2000).
EMBL; AF240690; AAR82092.1; -.
InterPro; IPR000048; IQ.
InterPro; IPR001609; myosin_head.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
TISSUE-ANTERIOR TIBIALIS SKELETAL
MEDLINE=20314481; PubMed=10854783;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last annotation updat-
TYPE 3 MYOSIN HEAVY CHAIN (FRAGMENT).
                                                                                                                                                                              PROSITE; PS50096; IQ;
NON_TER 840 840
SEQUENCE 840 AA; 95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordata; Craniata; Ve Amphibia; Batrachia; Anura; Neobatrachia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               muscle.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Rana pipiens (Northern leopard frog)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Lutz G.J., Razzaghi S., Lieber R.L.; "Cloning and characterization of the S1 from functionally divergent fiber types
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=8404;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gene 250:97-107(2000)
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Amphibia; Batrachia; Anura; Neobatrachia; Ranoidea; Ranidae; Rana
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                112 WMIYTYSG
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Score 36; DB Pred. No. 1.7e 2; Mismatches
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1.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    domain of four myosin in adult Rana pipiens
                                                                      DB 13;
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                                                                      Length
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Ranidae; Rana
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RESULT OPIGNAZ PAR RAN A
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SMART; SM00242; MYSC; 1.
PROSITE; PS50096; IQ; 1.
PROSITE; PS50096; IQ; 1.
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01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
17PE 1 MYOSIN HEAVY CHAIN (FRAGMENT).
Rana pipiens (Northern leopard frog).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Amphibla; Batrachia; Anura; Neobatrachia; Ranoidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q918N5;
                                                                                                                                               SEQUENCE FROM N.A.
TISSUE-ANTERIOR TIBIALIS SKELETAL MUSCLE;
MEDLINE-20314481; PubMed-10854783;
Lutz G.J., Razzaghi S., Lieber R.L.;
"Cloning and characterization of the S1 d
from functionally divergent fiber types i
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EMBL; AF240688; AAF82090.1; -.

InterPro; IPR000048; IQ.

InterPro; IPR001609; myosin_head.
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MEDLINE-20314481; PubMed-10854783;
Lutz G.J., Razzaghl S., Lieber R.L.;
"Cloning and characterization of the Sl d
from functionally divergent fiber types i
Gene 250:97-107(2000).
EMBL; AF240691; AAF82093.1;
InterPro; IPR000634; dehydr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
TYPE TONIC MYOSIN HEAVY (CHAIN (FRAGMENT).
Rana pipiens (Northern leopard frog).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Amphibia; Batrachia; Anura; Neobatrachia; Ranoidea; Rana.
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ProDom; PD000355; myosin_head; 1.
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Pfam; PF00063; myosin_head; 1.
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WMIYTYSG 120
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62.5%;
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    dehydrtse_ser_thr
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Pred. No. 1.7e+02;
2; Mismatches 1
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                                                                                                                                                            domain of four myosin in adult Rana pipiens
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Ranidae; Rana
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114

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InterPoro; IPR000048; IQ.
InterPoro; IPR001609; myosin_head.
InterPoro; IPR002928; Myosin_tail.
InterPoro; IPR000533; Tropomyosin.
Pfam; PF00612; IQ; I].
Pfam; PF00613; myosin_head; 1.
Pfam; PF00063; myosin_head; 1.
Pfam; PF00194; TROPOMYOSIN.
PRINTS; PR00194; TROPOMYOSIN.
PRINTS; PR00194; TROPOMYOSIN.
PRODDOM; PD000355; myosin_head; 1.
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SEQUENCE
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PRINTS; PR00193; MYOSINHEAVV.
ProDom; PD000355; myosin_head; 1.

SMART; SM00015; IQ; 1.

SMART; SM00242; MYSC; 1.

PROSITE; PS00105; DEHYDRATASE_SER_THR; UNKNOWN_1.

PROSITE; PS00639; THIOL_PROTEASE_HIS; UNKNOWN_1.

NON_TER 847 847

SEQUENCE 847 AA; 97012 MW; 7003975DA01EC138 C
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093498; PRTEMBLEL 08, Created)
01-NOV-1998 (TrEMBLEL 08, Last sequence update)
01-JUN-2001 (TrEMBLEL 17, Last annotation update)
MYOSIN HEAVY CHAIN (FRAMENT).
Theragra chalcogramma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei Acanthomorpha; Paracanthopterygii; Gadiformes; Gadoidei; Gadidae;
                                                                                                                                                                                                                                           SMART; SM00015; IQ; 1.
SMART; SM00242; MYSC;
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InterPro; IPR001609; myosin_head.
InterPro; IPR000169; Thiolprot_act_site.
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  WKIYSYAG
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62.5%;
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62.5%;
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                                               Score 36; D
Pred. No. 2.
2; Mismatche
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Pred. No. 1.7e
2; Mismatches
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                                                    Mismatches
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                                     DB 1-
2.7e+02;
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                                                                                                                                                                                                                                                                        Moore M.; Submitted (NOV-2000) to the EMBL; AL132825; CAC14945.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1216
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Homo sapiens (Human).
Homo sapiens (Homan).
Horota; Metazoa; Chordata;
Horota; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  O9NNXO;
O1-OCT-2000 (TrEMBLrel. 15, Created)
O1-OCT-2000 (TrEMBLrel. 15, Last sequence update)
O1-JUN-2001 (TrEMBLrel. 17, Last annotation update)
SOLUBLE ADENYLYL CYCLASE (EC 4.6.1.1).
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EMBL; AF271058; AAF74296.1; -.
EMBL; AF176813; AAF65931.1;
InterPro; IPR001054; Guanylt_cyclase
Pfam; PF00211; guanylate_cyc; 2.
SMART; SM00044; CYCC; 1.
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MEDLINE=99093493; PubMed=9874775;
Buck J., Sinclair M.L., Schapal L.,
"Cytosolic adenylyl cyclase defines
                                       Pfam; PF00063; myosin_head;
Pfam; PF01576; Myosin_tail;
PRINTS; PR00193; MYOSINHEAV
                                                                                                                                    InterPro; IPR000048; IQ. interPro; IPR001609; myosin_head. InterPro; IPR00228; Myosin_tail. InterPro; IPR002017; Spectrin.
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Mammalia; Eutheria;
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                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens (Human).
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SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PROSITE; PS50125; GUANYLATE_CYCLASES_2;
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Primates;
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the EMBL/GenBank/DDBJ
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Catarrhini;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     tation update)
IIB (KIAA15212) ) (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Vertebrata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 4;
3.5e+02;
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MYOSIN HEAVY CHAIN.
                                                 SEQUENCE FROM N.A.
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"MY CONTROL OF THE 
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Pennahia argentata; Chordata; Craniata; Vertebrata; Euteleostomi; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostei Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Percoid
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EMBL; AJ243767; CAC27776.1; -.

SEQUENCE 1929 AA; 221167 MW; 20A78CBA19DE851B CR
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Eukaryota; Metazoa; Chordata; Craniata; Verte
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T-cell receptor be	T-cell receptor be	Ig heavy chain CRD	Ig heavy chain CRD	bradykinin-potenti	gut pentapeptide -	neuropeptide - sea	dnazx-like protein	cholecystokinin-5	T-cell receptor be	T-cell receptor be	RPCH-related neuro	phenol 2-monooxyge	bradykinin-potenti	fibroblast growth	penalbumin - Adeli	variant surface gl	variant surface gl	urine glycopeptide	cholecystokinin -	cholecystokinin -

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C;Species: Ascidia ceratodes
C;Jate: 19-Mar-1997 #sequence_revision 29-Aug-1997 #text_change 11-Jun-1999
C;Accession: S68326
R;Taylor, S.W.; Ross, M.M.; Waite, J.H.
Arch. Biochem. Biophys. 324, 228-240, 1995
A;Title: Novel 3,4-di- and 3,4,5-trihydroxyphenylalanine-containing polypeptides
A;Reference number: S68325; MUID:96132650
A;Accession: S68326
                                                                                                                                                              fatty-acid synthase (EC 2.3.1.85) - rabbit (fragment)
C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 22-Jan-1993 #sequence_revision 22-Jan-1993 #text_change 26-May-2000
C;Accession: A60139
R;Hardie, D.G.; Dewart, K.B.; Aitken, A.; McCarthy, A.D.
Blochim. Biophys. Acta 828, 380-382, 1985
A;Title: Amino acid sequence around the reactive serine residue of the thiose A;Reference number: A60139; MUID:85175165
A;Accession: A60139; MUID:85175165
                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT
A60139
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S68326
A; Molecule type: protein
A; Residues: 1-7 <HARP
C; Superfamily: rat fatty-acid synthase; 3-oxoacyl-[acyl-carrier-protein] synthase I h
ydrolase homology; short-chain alcohol dehydrogenase homology; [acyl-carrier-protein]
C; Keywords: acyltransferase; carrier protein; coenzyme A; homodimer; multifunctional
E; 5/Active site: Ser (of oleoyl-[acyl-carrier-protein] hydrolase) #status experimenta
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F; 2/Modified site: 3', 4', 5'-trihydroxyphenylalanine (Tyr) #status experimental F; 4/Modified site: 3', 4'-dihydroxyphenylalanine (Tyr) #status experimental
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2 YAYA 5
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Query Match

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Length

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C; Species: Achatina fulica (giant African sn C; Date: 19 Mar-1997 #Sequence_revision 19 Ma C; Accession: S33244
R; Minakata, H.; Ikeda, T.; Muneoka, Y.; Koba FEBS Lett. 323, 104-108, 1993
A; Mitle: Wwamide-1, 2 and 3: novel neuromc A; Reference number: S33244; MUID:93265912
A; Accession: S33244
A; Status: preliminary
A; Molecule type: protein
A; Residues: 1-7 <MIN>
     Arch. Biochem. Biophys. 324, 228-240, 1995
A;Title: Novel 3,4-di- and 3,4,5-trihydroxyphenylalanine-containing
A;Reference number: S68325; MUID:96132650
A;Accession: S68325
A;Molecule type: protein
A;Residues: 1-8 <TAY>
F;2,3,4/Modified site: 3',4',5'-trihydroxyphenylalanine (Tyr) #statu
                                                                                                                              blood cell protein A8 - Ascidia ceratodes (fragment)
N;Alternate names: Abcp-A
C;Species: Ascidia ceratodes
C;Date: 19-Mar-1997 #sequence_revision 29-Aug-1997 #text_change 11-Jun-1999
C;Accession: S68325
R;Taylor, S.W.; Ross, M.M.; Waite, J.H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  R;Minakata, H.; Ikėda, T.; Muneoka, Y.; Kobayashi, M.; Nomoto, K. FEBS Lett. 323, 104-108, 1993
A;Title: WMamide-1, -2 and -3: novel neuromodulatory peptides isolated A;Reference number: $33244; MUID:93265912
A;Accession: $33246
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-7 <MIN>
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C;Species: Achatina fullca (giant African snail)
C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #tex
C;Accession: S33246
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3; Conservative
site: 3',4',5'-trihydroxyphenylalanine (Tyr) #status experimental
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.larity 100.0%;
Conservative 0;
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fulica (giant African snail)
#sequence_revision 19-Mar-1997 #text_change 24-Jul-1997
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Pred. No.
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2.2e+05;
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                                                                                                                                              C;Superfamily: glutathione transferase C;Keywords: acetylated amino end; blocked amino end; dimer; transferase F;1/Modified site: acetylated amino end (Ser) #status experimental
                                                                                                                                                                                                               A;Description: catalyzes the nucleophilic conjugation of intracellular glutathione A;Pathway: detoxification; xenobiotics metabolism A;Note: increased hydrophilicity of GSH-conjugates facilitates their further metabolism
                                                                                                                                                                                                                                                                     s mitochondrial form are
C;Complex: dimer
C;Function:
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A;Accession: S71870
A;Molecula terri
                                                                                                                                                                                                                                                                                                                                                                                                                      N;Alternate names: glutathione S-transferase class mu 9
C;Species: Sus scrofa domestica (domestic pig)
C;Date: 19-Mar-1998 #sequence_revision 13-Sep-1998 #text_change 07-May-1999
C;Accession: S71870
R;Rouimi, P.; Anglade, P.; Debrauwer, L.; Tulliez, J.
Biochem. J. 317, 879-884, 1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                laminin B1 - western wild mouse (fragment)
C;Species: Mus spretus (western wild mouse)
C;Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change
C;Accession: I49421
                                                                                                                                                                                                      es of damage
                                                                                                                                                                                                                                                                                                                                                                                                         Biochem. J. 317, 879-884, 1996
A; Title: Characterization of pig
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A;Title: Genetic mapping of 40 cDNA clones on the mouse gend A;Reference number: I48934; MUID:94319082
A;Accession: I49421
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R.M., D., Janes, S.M.; Smith, A.J.; Brown, D.E.; Dooley, D.M.; Klinman, J.P.
J. Biol. Chem. 267, 7979-7982, 1992
A;Title: Tyrosine codon corresponds to topa quinone at the active site of copper amine
A;Reference number: A38081; MUID:92235001
A;Accession: A38081 MUID:92235001
A;Moccule type: protein
A;Moccule type: protein
A;Residues: 1-7 AUAA>
C;Keywords: copper; oxidoreductase; quinoprotein; topaquinone
F;4/Modified site: topaquinone (Tyr) #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R:Yamada, M.; Wassorman, R.; Relchard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.
J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity and A;Reference number: PT0222; MUID:91108337
A;Accession: PT0269
                                                                                           R: Huesmann, G.R.; Cheung, C.C.; Loi, P.K.; L
FEBS Lett. 371, 311-314, 1995
A: Title: Amino acid sequence of CAP(2b), an
A: Reference number: S66646; MUID: 96013159
A: Accession: S66646
A: Status: preliminary
A: Molecule type: protein
A: Residues: 1-8 < HUE>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C;Species: Pichia angusta
C;Date: 31-Dec-1993 #sequence_revision 03-Feb-1994 #text_change 20-Apr-2000
C;Accession: A38081
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A; Residues: 1-7 < YAM>
A; Experimental source: B lymphocyte
C; Keywords: heterotetramer; immunoglobulin
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C;Dute: 30-Sep-1993 #sequence_revision 30-Sep-1993
C;Accession: PT0269
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S66646
                                                                                                                                                                                                                                           cardioacceleratory protein 2b - tobacco hornworm
C;Species: Manduca sexta (tobacco hornworm)
C;Datc: 15-Feb-1997 #sequence_revision 13-Mar-1997 #text_change 17-Mar-1999
C;Accession: S66646
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; Pred. No. 2.2e
4; Mismatches
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Pred. No. 2.2e
2; Mismatches
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0; Mismatches 1
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2.2e+05;
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                 DB 2;
2.2e+05;
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C;Species: Mytilus edulis (blue mussel)
C;Date: 07-Oct-1994 #sequence_revision 07-Oct-1994 #tC;Accession: B61445
R;Leung, M.K.; Stefano, G.B.
Proc. Natl. Acad. Sci. U.S.A. 81, 955-958, 1984
A;Title: Isolation and identification of enkephalins
A;Reference number: A61445; MUID:84144823
A;Accession: B61445
A;Roccession: B6144
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A;Title: Callatostatins: neuropeptides from the blowfly Calliphora vomitoria with seq A;Reference number: A47393; MUID:93211980
A;Accession: D47393
                                                                                                                                           Metrenkephalin - blue mussel
C:Species: Mytilus edulis (blue mussel)
C:Species: Mytilus edulis (blue mussel)
C:Date: 07-Oct-1994 *sequence_revision 07-Oct-1994 *text_change: C:Date: 07-Oct-1994 *sequence_revision 07-Oct-1994 *text_change: C:Date: 07-Oct-1994 *sequence_revision 07-Oct-1994 *text_change: C:Date: 07-Oct-1994 *sequence_revision: A6145
R:Leung, M.K.; Stefano, G.B.
Proc. Natl. Acad. Sci. U.S.A. 81, 955-958, 1984
A:Title: Isolation and identification of enkephalins in pedal garanteer.
A:Reference number: A61445; MUID:84144823
A:Accession: A61445
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A; Residues: 1-8 <DUV>
A; Experimental source: thoracic
A; Note: sequence extracted from
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C;Species: Calliphora vomitoria
C;Date: 16-Feb-1994 #sequence_revision 18-Nov-1994 #text_change 28-Apr-1995
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A;Experimental source: pedal ganglia
C;Keywords: neuropeptide; opioid peptide
                                                                         A; Molecule type: protein A; Residues: 1-5 <LEU>
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Pred. No. 2.2e+05;
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Met-enkephalin-Arg-Phe - rabbit
C:Species: Oryctolagus cuniculus (domestic rabbit)
C:Date: 21-Oct-1992 *sequence_revision 21-Oct-1992 *te
C:Accession: A60224
R:Madden IV, J:, Evans, C.J:, Tyler, A.N.: Esch, F.S.;
J. Neurochem. 56, 1914-1920, 1991
A;Title: Isolation and characterization of opioid pept
A;Reference number: A60224; MUID:91225680
A;Accession: A60224
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-7 <MADD
C:Superfamily: proenkephalin
C:Keywords: neuropeptide; opioid peptide
                                                                                                                                         RESULT
S33245
                                                               neuromodulatory peptide WWamide-2 - giant African snail C:Species: Achatina fulica (giant African snail) C:Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #tex C:Accession: S33245
R:Minakata, H.; Ikeda, T.; Muneoka, Y.; Kobayashi, M. FEBS Lett. 323, 104-108, 1993
A:Title: Wagmide-1, -2 and -3: novel neuromodulatory
A:Reference youmber: S33244; MUID:93265912
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C;Species: Sus scrofa domestica (domestic pig)
C;Date: 01-Sep-1981 #sequence_revision 01-Sep-1981 #text_change 23-Aug-1996
C;Accession: A01417
R;Chang, R.C.C.; Huang, W.Y.; Arimura, A.; Redding, T.W.; Coy, D.H.; Saffrar
Horm. Metab. Res. 13, 228-232, 1981
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A;Accession: A01417
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2; Conserv
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                                 T.; Muneoka, Y.; Kobayashi, M.; Nomoto, 8, 1993
                                                                                                                                                                                                                                                                                         27.1%;
66.7%;
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66.7%;
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Pred. No. 2.2e
0; Mismatches
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Pred. No. 2.2e+05
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Pred. No. 2.2e+05;
0; Mismatches 1
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                                                                                                                                                                                                                                                                                         DB 2;
2.2e+05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           peptides
                                                                                 #text_change 24-Jul-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0;
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                   peptides
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                   isolated
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                 from
               ganglia
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S63493
S63493
dissimilatory sulfite reductase gamma chain, membrane-bound and soluble - Desulfovibr C:Species: Desulfovibrio desulfuricans
C:Date: 28-Oct-1996 #sequence_revision 13-Mar-1997 #text_change 17-Mar-1999
                                                                                                                                                                                                                                                                                                                                                                   R;Martin, J.; Slade, A.; Aitken, A.; Arche, R.; Virden, Biochem. J. 280, 659-662, 191
A;Title: Chemical modification of serine at the active A;Reference number: S19288; MUID:92109664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT
S19288
                                                                          RESULT
                                                                                                                                                                                                                                                                                                                                                  A; Reference number: A; Accession: S19288
                                                                                                                                                                                                                                                                                                                                                                                                                                            C; Accession: S19288
                                                                                                                                                                                                                                                                                                                                                                                                                                                          C;Species: Kluyvera cryocrescens
C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 24-Jul-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  acylase - Kluyvera cryocrescens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C;Accession: 156695
R;Schneider-Maunoury, S.; Croissant, O.; Orth, G.
J. Virol. 61, 3295-3298, 1987
A;Title: Integration of human papillomavirus type
A;Reference number: 156695; MUID:87311896
A;Accession: 156695
                                                                                                                                                                                                                                                                                                A; Residues:
                                                                                                                                                                                                                                                                                                                 A; Molecule
                                                                                                                                                                                                                                                                                                                                 A; Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Cross-references: GB:M30709; NID:g190253; PIDN:AAA65995.1; PID:g553616 C;Comment: This is the hypothetical translation of a viral sequence integrated in C;Comment: It is translated in an incorrect, -1, reading frame of the L2 protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            hypothetical L2 protein (mistranslated) - human papillomavirus type 16 (fra C; Species: human papillomavirus type 16 (c; Date: 18-Feb-2000 #sequence_revision 18-Feb-2000 #text_change 18-Feb-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Molecule type: DNA
A; Residues: 1-7 <SCH>
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A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-7 <MIN>
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1 WR 2
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66.7%;
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50.0%;
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Pred. No. 2.
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Pred. No. 2.2e+05;
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#text_change 17-Mar-1999

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R:Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.
J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity and A; Reference number: PT0222; MUID:91108337
A; Accession: PT0240
A; Molecule type: DNA
A; Rcsiducs: 1-4 <YAM>
A; Rcsiducs: 1-4 <YAM>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Molecule type: protein
A; Residues: 1-8 <HOL>
C; Comment: Leucokinins, a family of cephalomyotropic peptides, stimulate
C; Keywords: amidated carboxyl end; cephalomyotropic peptide
F; 8/Modified site: amidated carboxyl end (Gly) #status experimental
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JS0318
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                                                                                                              A; Experimental source: B lymphocyte C; Keywords: heterotetramer; immunoglobulin
                                                                                                                                                                                                                                                           Ig heavy chain CRD3 region (clone 2-100B) - human (fragment)
C;Specios: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
C;Accession: PT0240
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      leucokinin VIII - Madeira cockroach
C;Spccles: Leucophaca maderae (Madeira
C;Datc: 07-Sep-1990 #sequence_revision
C;Accession: JS0318
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A;Molecule type: protein
A;Residues: 1-8 <ST2>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A:Reference number: S63489; MUID:96085152 A:Accession: S63493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eur. J. Blochem. 233, 873-879, 1995 A; Title: Molecular properties of the dissimilatory sulfite reductase from Desulfovibrio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C;Accession: S63493;
R;Steuber, J.; Arends
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4 TYKG
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2; Conserv
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66.78;
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1995
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                                 Score 12; DB
Pred. No. 2.2e
0; Mismatches
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Pred. No. 2
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07-Sep-1990 #text_change
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2.2e+05;
                                               DB 2;
2.2e+05;
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A;Molecule type: DNA
A;Residues: 1-5 <YAM>
A;Experimental source: B lymphocyte
C;Keywords: heterotetramer; immunoglobulin
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A:Title: Preferential utilization of specific immunoglobulin heavy chain diversity A; Reference number: PT0222; MUID:91108337
A:Accession: PT0308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ig heavy chain CRD3 region (clone 6-88) - human (fragment) C;Species: Homo sapiens (man) C:Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_c C;Accession: PT0308
                                                                                     R;Peterson, D.S.; Walliker, D.; Wellems, T.E.
Proc. Natl. Acad. Sci. U.S.A. 85, 9114-9118, 1988
A;Title: Evidence that a point mutation in dihydrofolate
A;Reference number: A94217; MUID:89057886
A;Accession: A31263
                                                                                                                                                                                                       dihydrofolate reductase (EC 1.5.1.3) / thymidylate synthase (EC C;Species: Plasmodium falciparum C;Date: 28-Feb-1990 #sequence_revision 28-Feb-1990 #text_change C;Accession: A31263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Molecule type: protein
A;Residues: 1-6 <HJE>
C;Superfamily: alcohol dehydrogenase; long-chain alcohol dehydrogenase
C;Keywords: alcohol metabolism; NAD; oxidoreductase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R;Hjelmqvist, L.; Hackett, M.; Shafqat, J.; Danielsson, O.; Iida, J.; Hendrickson, R. FEBS Lett. 367, 237-240, 1995 A;Title: Multiplicity of N-terminal structures of medium-chain alcohol dehydrogenases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            alcohol dehydrogenase (EC 1.1.1.1) class III low affinity form - cod (Gadus C;Species: Gadus sp. (cod)
C;Species: Gadus sp. (cod)
C;Date: 19-Mar-1997 #sequence_revision 29-Aug-1997 #text_change 12-Jun-1998
C;Accession: S66195
A; Residues: 1-6 <PET>
C; Keywords: methyltransferase;
                          A; Molecule type: DNA
A; Residues: 1-6 < PET>
                                                 A;Status: not compared with A;Molecule type: DNA
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dihydrofolate reductase (EC 1.5.1.3) / thymidylate synthase (EC 2.1.1.45) - Plasmodium fC;Species: Plasmodium falciparum
C;Species: Plasmodium falciparum
C;Date: 20-Feb-1990 #sequence_revision 28-Feb-1990 #text_change 20-Mar-1996
C;Accession: B31263
R;Peterson, D.S.; Walliker, D.; Wellems, T.E.
Proc. Natl. Acad. Sci. U.S.A. 85, 9114-9118, 1988
A;Title: Evidence that a point mutation in dihydrofolate reductase-thymidylate synthase A;Accession: B31263
A;Accession: B31263
A;Accession: B31263
A;Residues: 1-6 <PET>
C;Keywords: methyltransferase; NADP; oxidoreductase
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Search completed: January 14, 2002, 06:43:20 Job time: 348 sec
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30-MAY-2000 (Rel. 39, Last annotation update)
CARCINUSTATIN 16.
Carcinus maenas (Common shore crab) (Green crab).
Carcinus maenas (Common shore crab) (Green crab).
Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;
Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyuna;
Eubrachyura; Portunoidea; Portunidae; Carcinus. CARMA Cydia pomonella (Codling moth). Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insect Pterygota; Neoptera; Endopterygota; Lepidoptera; Glossata; Tortricoidea; Tortricidae; Olethreutinae; Cydia. TISSUE=Cerebral ganglion, and Thoracic ganglion; MEDLINE=98121193; PubMed=9461295; Duve H., Johnsen A.H., Maestro J.-L., Scott A.G. SEQUENCE. NCBI_TaxID=6759; Thorpe A. Local Similarity nes 3; Conserv 4 4 YSY YSY Conservative 37.5%; 0; Score 18; Pred. No. Mismatches on update) Scott A.G., DB 1; 1e+05; ΑA OR NEUROMODULATOR 0 Length Jaros Insecta; ssata; Ditrysia; 8 P.P., 0 Gaps

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PSK_DAUCA
ALL2_CARMA
MNP1_LEPDLE
ALL12_CARMA
ANG2_BOTJA
CCKN_MACEU
GLUR_HUMAN
UPAA_HUMAN
UPAA_HUMAN
UPAA_LOCMI
ALL3_CARMA
ALL4_CARMA
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P35921;
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                                                      Achatina fulica (Giant African snail).
Eukaryota; Metazoa; Mollusca; Gastropoda; Pulmonata;
Achatinacea; Achatinidae; Achatina.
                                                                                                                                                                                                                                                                                                              MEDLINE=93265912; PubMed=8495720; Minakata H., Ikeda T., Muneoka Y., Kobayashi M., Nomoto "WWamide-1, -2 and -3: novel neuromodulatory peptides is ganglia of the African giant snail, Achatina fulica."; FEBS Lett. 323:104-108(1993).
TISSUE=Ganglion;
MEDLINE=93265912; PubMed=8495720;
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Achatinacea; Achatinidae; Achatina.
NCBI_TaxID=6530;
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MOD_RES 7 AMIDATION.
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MEDLINE=98054539; PubMed=9392829;
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                                                                                                                  Created)
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7362D5B686D32310 CRC64;
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672879CABB569350 CRC64;
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Pred. No.
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1e+05;
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RESULT 6
AL14_CARMA
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P81821;
30-MAY-2000 (Rel. 39, C
30-MAY-2000 (Rel. 39, I
30-MAY-2000 (Rel. 39, I
                                                                                                                           AL14_CARMA
P81817;
30-MAY-2000
                                                                                                                                                                                                                                                                                                           "Isolation and identification of multiple neuropeptides of the allatostatin superfamily in the shore crab Carcinus maenas.";
Eur. J. Biochem. 250:727-734(1997).
-!- FUNCTION: MAY ACT AS A NEUROTRANSMITTER OR NEUROMODULATOR.
-!- SIMILARTY: BELONGS TO THE ALLATOSTATIN FAMILY.
Neuropeptide; Amidation; Multigene family.
MOD_RES

8

AMIDATION (POTENTIAL).
SEQUENCE 8 AA; 919 MW; C82879D5AB569AB5 CRC64;
                                                                                         30-MAY-2000 (Rel.
30-MAY-2000 (Rel.
CARCINUSTATIN 14
                                                       Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca; Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyu
                                                                             Carcinus maenas (Common shore crab) (Green crab).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Carcinus maenas (Common shore crab) (Green crab). Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca; Eucarida; Decapoda; Pleocyemata; Brachyu Eubrachyura; Portunoidea; Portunidae; Carcinus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Winakata H., Ikeda T., Muneoka Y., Kobayashi "Wwamide-1, -2 and -3: novel neuromodulatory ganglia of the African giant snail, Achatina FEBS Lett. 323:104-108(1993).
PIR: S33244; S33244.
TISSUE=Cerebral ganglion, and Thoracic ganglion;
                                 NCBI_TaxID=6759;
                                             Eubrachyura;
                                                                                                                                                                                                                                                                                                                                                                                                                            TISSUE=Cerebral ganglion, and Thoracic ganglion MEDLINE=98121193; PubMed=9461295;
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           SEQUENCE
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1 WK 2
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                                             Portunidae;
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7362D5B69B132310
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Pred. No.
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RESULT AL15_CARMA
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AC P81818
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DT 30-MAY
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Matches
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P81820;
30-MAY-2000 (Rel. 39, C
30-MAY-2000 (Rel. 39, L
30-MAY-2000 (Rel. 39, L
CARCINUSTATIN 17.
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-I- FUNCTION: MAY ACT AS A NEUROTRANSMITTER OR NEUROMODULATOR.

-I- SIMILARITY: BELONGS TO THE ALLATOSTATIN FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Carcinus maenas (Common shore crab) (Green crab).
Eukaryota; Mctazoa; Arthropoda; Crustacea; Malacostraca;
Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyu
Eubrachyura; Portunoidea; Portunidae; Carcinus.
NCBI_TaxID=6759;
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             Carcinus maenas (Common shore crab) (Green crab).
Eukaryota; Metazoa; Arthiropoda; Crustacea; Malacostraca;
Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyura;
Eubrachyura; Portunoidca; Portunidae; Carcinus.
                                                                                                                                                                                                                                                                                                                                                                                              MOD_RES
                                                                                                                                                                                                                                                                                                                                                                                                                                          "Isolation and identification of multiple neuropeptides of the allatostatin superfamily in the shore crab Carcinus maenas."; Eur. J. Blochem. 250:727-734(1997).

-I- FUNCTION: MAY ACT AS A NEUROTRANSMITTER OR NEUROMODULATOR.

-I- SIMILARITY: BELONGS TO THE ALLATOSTATIN FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TISSUE-Cerebral ganglion, and Thoracic MEDLINE-98121193; PubMed-9461295;
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MOD_RES 5 5 AMIDATION (POTENTIAL).

SEQUENCE 5 AA; 586 MW; 672879D5AB300000 CRC64;
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Duve H., Johnsen A.H., Maestro J.-L.,
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Eubrachyura; Pon
NCBI_TaxID~6759;
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Last annotation update)
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Pred. No. le+05;
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Pred. No. 1e+05;
1; Mismatches
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RESULT
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ALLA_CALVO STANDARD; PRT; 8 AA.

P41840;
01-NOV-1995 (Rel. 32, Created)
101-NOV-1995 (Rel. 32, Last sequence update)
130-MAY-2000 (Rel. 39, Last annotation update)
130-MAY-2000 (Rel. 39, Last annotation update)
130-MAY-2000 (Rel. 39, Last annotation update)
130-MAY-2000 (Rel. 39, Last annotation update)
130-Calliphora vomitoria (Blue blowfly).
131-Calliphora vomi
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SEQUENCE.
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Duve H., Johnsen A.H., Maestro J.-L., Scott A.G., Winstan Davey M., East P.D., Thorpe A.;
"Lepidopteran peptides of the allatostatin superfamily.";
Peptides 18:1301-1309(1997).
-!- SIMILARITY: BELONGS TO THE ALLATOSTATIN FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cydia pomonella (Codling moth).

Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;

Pterygota; Neoptera; Endopterygota; Lepidoptera; Glossata; Ditrysia;

Tortricoidea; Tortricidae; Olethreutinae; Cydia.
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MOD_RES 8 8 AMIDATION (POTENTIAL)
SEQUENCE 8 AA; 858 MW; C82879D5AB46D865 CRC64;
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MOD_RES 8 8
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-!- SIMILARITY: BELONGS TO THE ALLATOSTATIN FAMILY.
                                                                                                                                 Neuropeptide; Amidation. MOD_RES 8 8
                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Lepidoptera; Glossata; Ditrysia; Tortricoidea; Tortricidae; Olethreutinae; Cydia.
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SEQUENCE
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Cell Tissue Res. 276:367-379(1994).
-i- FUNCTION: MAY ACT AS A NEUROTEANSMITTER OR NEUROMODULATOR AND PLAY A ROLE IN THE INTEGRATION OF INFORMATION WITHIN THE BRAIN. MAY BE INVOLVED IN THE CONTROL OF VISCERAL MUSCLES DUE TO ITS ABILITY TO BEHAVE AS POTENT INHIBITORS OF PERISTALIC MOVEMENTS. MAY ALSO FULFILL A NEUROHORMONAL ROLE ON MUSCLES OF THE GUT AND HEART.
-i- TISSUE SPECIFICITY: BRAIN, SUBGESOPHAGEAL GANGLION, RETROCEREBRAL COMPLEX, THORACICO-ABDOMINAL GANGLION, PERIPHERAL NEUROSECRETORY
                                                                                                                 SEQUENCE
                                                                                                                                                                                                                                                                   MEDLINE=98054539; PubMed=9392829;
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MEDLINE=93211980; PubMed=8460157;
Duve H., Johnsen A.H., Scott A.G.,
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                                                                                                Neuropeptide; Amidation.
MOD_RES 7 7 7
SEQUENCE 7 AA; 993 MW.
                                                                                                                                       Minakata H., Ikeda T., Muneoka Y., Kobayashi M., Nomoto K.;
"Wwamide-1, -2 and -3: novel neuromodulatory peptides isolated from
ganglia of the African giant snail, Achatina fulica.";
FEBS Lett. 323:104-108(1993),
-1- FUNCTION: EXHIBITS MODULATORY EFFECTS ON THE PERIPHERAL NERVOUS
SYSTEM. INLESTS ACTIVITY ON A CENTRAL NEURON.
PIR: S33245; S33245.
                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Mollusca; Gastropoda; Pulmonata; Stylommatophora;
Achatinacea; Achatinidae; Achatina.
NCBI_TaxID=6530;
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MEDLINE=93265912; PubMed=8495720;
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                                                                                                                     Holman G.M., Cook B.J., Nachman R.J.;

"Isolation, primary structure and synthesis of leucokinins VII and VIII: the final members of this new family of cephalomyotropic peptides isolated from head extracts of Leucophaea maderae.";

Comp. Biochem. Physiol. 880:31-34(1987).

-I- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACTILE ACTIVITY OF COCKNOACH PROTODEUM (HINDGUT).

-I- SIMILARITY: TO THE OTHER LEUCOKININS.

PIR; JS0318; JS0318.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ALL6_CYDPO STANDARD; PRT; 8 AA. P82157; 90-MAY-2000 (Rel. 39, Created) 30-MAY-2000 (Rel. 39, Last sequence update) 30-MAY-2000 (Rel. 39, Last annotation update) CYDIASTATIN 6.
                                                                                                                                                                                                                                                                                                                                            LCK8_LEUMA STANDARD: PRT; p1990; 01-FEB-1991 (Rel. 17, Created) 01-FEB-1991 (Rel. 17, Last sequence up 01-FEB-1991 (Rel. 17, Last annotation LEUCOKININ VIII (L-VIII).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Duve H., Johnsen A.H., Maestro J.-L., Scott A.G., Winstan Davey M., East P.D., Thorpe A.;
"Lepidopteran peptides of the allatostatin superfamily.";
Peptides 18:1301-1309(1997).
-!- SIMILARITY: BELONGS TO THE ALLATOSTATIN FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cydia pomonella (Codling moth).
Eukuryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Endopterygota; Lepidoptera; Glossata; Ditrysia;
Tortricoidea; Tortricidae; Olethreutinae; Cydia.
NCBI_TaxID-82600;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE-98054539; PubMed-9392829; Duve H., Johnsen A.H., Maestro J.-L.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CYDP0
                                                                                     Neuropeptide; Amidation.
MOD_RES 8 8
SEQUENCE 8 AA; 902 MW
                                                                                                                                                                                                                                                                                                 Leucophaea maderae (Madeira cockroach).
Eukaryota; Metazoa; Arthropoda; Trachea
Pterygota; Neoptera; Orthopteroidea; Di
Blaberoidea; Blaberidae; Leucophaea.
                                                                                                                                                                                                                                                                                                                                                                                                                                  LEUMA
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0B2879C45B573767
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736365AB59CAADD8
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                                                                                                                                                                                                                                                                                                             Tracheata; Hexapoda; Insecta; Idea; Dictyoptera; Blattaria;
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ALL2_CARMA
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MOD_RES
SEQUENCE
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30-MAY-2000 (Rel. 39, Last sequence update)
30-MAY-2000 (Rel. 39, Last annotation update)
30-MAY-2000 (Rel. 39, Last annotation update)
CARCINUSTATIN 2.
Carcinus maenas (Common shore crab) (Green crab).
Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;
Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "A secreted peptide growth factor, phytosulfokine, stimulatory factor of carrot somatic embryo formatiplant Cell physiol. 41:27-32(2000).

-!- FUNCTION: IN PRESENCE OF 2,4-D, STIMULATES PROICELLS, BUT DOES NOT STIMULATE DIFFERENTIATION 1
"Thorpe A.;
"Isolation and identification of multiple rallatostatin superfamily in the shore crab Eur. J. Biochem. 250:727-734(1997).
-:- FUNCTION: MAY ACT AS A NEUROTRANSMITTER
                                                                                                                    TISSUE-Cerebral ganglion, and Thoracic MEDLINE-98121193; PubMed-9461295; Duve H., Johnsen A.H., Maestro J.-L., S
                                                                                                                                                                                                                                          Eukaryota; Metazoa; Arthropoda; Crust; Eumalacostraca; Eucarida; Decapoda; Pi Eubrachyura; Portunoidea; Portunidae; CCBI_TaxID=6759;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ALL2_CARMA
P81805;
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20-AUG-2001 (Rel. 40, Last sequence update)
20-AUG-2001 (Rel. 40, Last annotation update)
PHYTOSULFOKINE-ALPHA (PSK-ALPHA) [CONTAINS: PHYTOSULFOKINE-BETA (PSK-
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Kamada H., Sakagami Y.
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PubMed-10750705;
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                                                                                                                         Scott A.G.,
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30-MAY-2000 (Rel. 3
30-MAY-2000 (Rel. 3
CARCINUSTATIN 12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     _LEPDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Leptinotarsa decemlineata (Colorado potato beetle).

Bukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;

Pterygota; Neoptera; Endopterygota; Coleoptera; Polyphaga;

Cucujiformia; Phytophaga; Chrysomeloidea; Chrysomelidae;

Chrysomelinae; Leptinotarsa.

NCBI_TaxID-7539;
                                                        Eumalacostraca; Eucarida; Eubrachyura; Portunoidea; NCBI_TaxID=6759;
                                                                                                                                                                                                                                                                                                                                                                                                    Spittaels K., Vankeerberghen A., Schoofs L., To Grauwels L., van Leuven F., de Loof A.; "Identification, characterization, and immunolo a novel myotropic neuropeptide in the Colorado Leptinotarsa decemlineata."; peptides 16:365-374(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NNP1_LEPDE STANDARD; PRT; 7 AA. P42984; 01-NOV-1995 (Rel. 32, Created) 01-NOV-1995 (Rel. 32, Last sequence update) 01-NOV-1995 (Rel. 32, Last annotation update) MYOTROPIC NEUROPEPTIDE I (LED-MNP-I).
                                                                                           Carcinus maenas (Common shore crab) (Green crab).
Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;
                                                                                                                                                                               AL12_CARMA
                                                                                                                                                                                                                                                                                                                                               SEQUENCE
                                                                                                                                                                                                                                                                                                                                                          Neuropeptide; Amidation. MOD_RES 7 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=95380343; PubMed=7651886;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TISSUE=Head
         TYSSUE=Cerebral ganglion, and Thoracic ganglion; MEDLINE=98121193; PubMed=9461295;
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MOD_RES
                                  SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                  OVIDUCT
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AMIDATION (POTENTIAL).
                                                                                                                                                                              STANDARD;
A.H.,
                                                                                                                            39, Created)39, Last sequence update)39, Last annotation update)
                                                                                                                                                                                                                                                                                                                                               705 MW;
                                                                                                                                                                                                                                                                                                25.0%;
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Maestro
                                                                    Portunidae; Carcinus
                                                                               Decapoda; Pleocyemata; Brachyura;
                                                                                                                                                                                                                                                                                                                                              6DD73768745B5DB0 CRC64;
                                                                                                                                                                                                                                                                                     1;
                                                                                                                                                                                                                                                                                               Score 12;
Pred. No.
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Pred. No. 1e+05;
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Scott A.G.,
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Jaros P.P.,
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ANG2_BOTJA
Q10582;
Q1-OCT-1996
                                                           Dasyurus viverrinus (Southeastern quoll).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Metatheria; Diprotodontia; Macropodidae; Macropus.
                                                                                                                                                                                                                                                          Bothrops Jararaca (Jararaca).

Bothrops Jararaca (Dordata: Craniata; Vertebrata; Euteleostomi;
Eukaryota; Metazoa; Chordata: Craniata; Serpentes; Colubroidea;
                                                                                                                                                                                                                                                                                                                                                                        01-OCT-1996 (Rel. 34, Created)
01-OCT-1996 (Rel. 34, Last sequence upd
15-DEC-1998 (Rel. 37, Last annotation u
ANGIOTENSIN-LIKE PEPTIDE II (FRAGMENT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=9315, 9279;
[1]
                                                                                                                                                                                                                                                                                                    TISSUE=Plasma;
MEDLINE=96208932; PubMed=8829801;
                                                                                                                                                                                                                                                                                                                                           Lepidosauria; Squamata; Scleroglossa; Viperidae; Crotalinae; Bothrops.
SEQUENCE
                                              Macropus eugenii (Tammar wallaby),
                                                                                                                                                                                                                                             InterPro; IPR000215; Serpin.
PROSITE; PS00284; SERPIN; PARTIAL.
                                                                                                                                                                                                                                                                                                                     SEQUENCE
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                                                                                                                                                                                                                                    Vasoconstrictor; Plasma; Serpin.
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1046 MW;
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Pred. No. 1e+0
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RESULT 23
UPAA_HUMAN
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 UPAA_HUMAN
P30096;
01-APR-1993
01-APR-1993
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21-JUL-1986 (Rel. 01
20-AUG-2001 (Rel. 40
URINE GLYCOPEPTIDE.
                                                                                                                                                                                                   "Identification in urine of a low-molecular-weight highly polar glycopeptide containing cysteinyl-galactose.";
Biochem. J. 123:25P-25P(1971).
-I- FUNCTION: THE IDENTITY OF THE GLYCOPROTEIN FROM WHICH THIS IS DERIVED IS UNKNOWN. NO PHYSIOLOGICAL FUNCTION HAS BEEN ATTRIBUTED. AN ERYTHOCOYTE MEMBRANE GLYCOPEPTIDE HAVING A SIMILAR STRUCTURE HAS ALSO BEEN FOUND.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MOD_RES
                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID:9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Peptides 9:429-431(1988).

-I- FUNCTION: THIS PEPTIDE HORMONE INDUCES AND THE RELEASE OF PANCREATIC ENZYMES 1
IN THE BRAIN IS NOT CLEAR.
-I- SIMILARITY: BELONGS TO THE GASTRIN/CHOI
                                                                                                                                                                                             Glycoprotein.
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PIR; PQ0012; PQ0012.
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MEDLINE-88234141; PubMed-3375140;
                                                                                                                                                                                     CARBOHYD
                                                                                                                                                                                                                                                                                                   MEDLINE-72062338; PubMed-5126885;
                                                                                                                                                                                                                                                                                                              SEQUENCE
                                                                                                                                                                                                                                                                                                                                                               Homo sapiens (Human).
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                                                                                                                                                                                                                                                                                         Lote C.J., Welss J.B.;
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2: Conservative
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                                STANDARD;
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Primates;
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66.7%;
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C2D87AA1F5B1EB1E
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de purified
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 sequence
                                                                                                                       Score 12; DB Pred. No. 1e+0
2; Mismatches
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Pred. No. le+05;
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                                                                                                                                                                                                                                                                                                                                          Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
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BPP7_BOTIN
P30425;
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NON_TER
VARIANT
                                                                                                                   "Primary structure and biological activity of bradykinin poter peptides from Bothrops insularis snake venom.";
J. Protein Chem. 9:221-227(1990).
-i. FUNCTION: THIS PEPTIDE BOTH INHIBITS THE ACTIVITY OF THE ANGIOTENSIN-CONVERTING ENZYME AND ENHANCES THE ACTION OF BRADYKININ BY INHIBITING THE KINASES THAT INACTIVATE IT.
IT ACTS AS AN INDIRECT HYPOTENSIVE AGENT.
PIR; 637196; 637196.
                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea; Viperidae; Crotalinae; Bothrops.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TISSUE-Plasma;
TISSUE-Plasma;
MEDLINE-93092937; PubMed-1459097;
Minches G.J., Frutiger S., Paquet N., Ravier F., Pasquali
                                                                                   Hypotensive agent; Venom.
MOD_RES 1 1
SEQUENCE 5 AA; 629 MW;
                                                                                                                                                                                                                    MEDLINE=90351557;
Cintra A.C.O., Vie
                                                                                                                                                                                                                                                                                                                                                   01-APR-1993 (Rel. 25, Created)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last annotation update)
BRADYKININ-POTENTIATING PEPTIDE S5,2 (5A) (AN
                                                                                                                                                                                                                                             TISSUE=Venom;
                                                                                                                                                                                                                                                                               NCBI_TaxID=8723;
                                                                                                                                                                                                                                                                                                                          ENZYME INHIBITOR).

Bothrops insular's (Island Jararaca) (Queimada Jararaca)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "Plasma protein map: an update by microsequencing Electrophoresis 13:70-714(1992).
-i- mISCELLANEOUS: ON THE 2D-CEL THE DETERMINED PJ
PROTEIN IS: 7, ITS MW IS: 12 KDA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-AUG-2001 (Rel. 40, Last annotation update)
UNKNOWN PROTEIN FROM 2D-PAGE OF PLASMA (SPOT 36)
Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=9606;
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clarity 100.0%;
Conservative
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                                                                                                                                                                                                                    Vieira C.A., Giglio J.R.;
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Pred. No.
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RESULT 25
UFOL_MOUSE STANDARD; PRT; 5 AA.
AC P38639;
DT 01-OCT-1994 (Rel. 30, Created)
DT 01-OCT-1994 (Rel. 31, Last sequence update)
DT 01-FEB-1995 (Rel. 31, Last sannotation update)
DT 01-FEB-1995 (Rel. 31, Last sannotation update)
DT 01-FEB-1995 (Rel. 31, Last sannotation update)
DE UNRNOWN PROTEIN FROM 2D-PAGE OF FIBROBLASTS (P19) (FRAGMENT).
OS MUS MUSCULUS (MOUSE).
OC ENKATYOLS, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC MAMIMAIA; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
RN NELTINE-190909; PubMed-7523108;
RN MEDLINE-9509907; PubMed-7523108;
RN MEDLINE-9509907; PubMed-7523108;
RN MEDLINE-9509907; PubMed-7523108;
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RN MEDLINE-9509907; PubMed-7523108;
RN MEDLINE-9509909; Pred. No. Le-05;
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Pred. No. 1s the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

19	18	17	16	15	14	13	12	11	10	9	8	7	6	ហ	4	w	N	1	Result
11	11	11	11	11	11	11	11	11	11	12	12	12	12	13	15	16	16	18	Score
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ALIGNMENTS

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SEQUENCE 7 AA;
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MEDLINE-81069885; PubMed-6254986;
Bonitz S.G., Coruzzi G., Thalenfeld B., Tzagoloff A., Macino G
Bonitz S.G., Coruzzi G., Thalenfeld B., Tzagoloff A., Macino G
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Q95945;
Q1-FEB-1997 (TrEMBLrel. 02, Created)
Q1-FEB-1997 (TrEMBLrel. 02, Last sequence update)
Q1-NOV-1998 (TrEMBLrel. 08, Last annotation update)
INSIDE INTRON 5 (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cytochrme oxidase.";
J. Biol. Chem. 255:11927-11941(1980).
EMBL; V00694; CAA24066.1; -.
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Pred. No. 4.7e+05;
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Q62721; PRELIMINARY;
Q62721; O1-NOV-1996 (TrEMBLrel. 01,
01-NOV-1996 (TrEMBLrel. 08,
01-NOV-1998 (TrEMBLrel. 08,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            P82929 PRELIMINARY; PRT; 8 AA. P82929; PRE2929; Ol-MAR-2001 (TrEMBLrel. 16, Created) Ol-MAR-2001 (TrEMBLrel. 16, Last sequence update) Ol-MAR-2001 (TrEMBLrel. 16, Last annotation update MITOCHONDRIAL 28S RIBOSOMAL PROTEIN S34 (MRP-S34) Bos taurus (Bovine).
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Gene 158:291-294(1995).
EMBL; U17178; AAA86692.1; -.
                                                                                                                                                                                                         Altus M.S., Wood C.M., Ste Henderson T., Owens G.A., McClung J.K.;
                                                                                                                                                                                                                  MEDLINE=95331633; PubMed=7607556; Altus M.S., Wood C.M., Stewart D.A., Rohenderson T., Owens G.A., Danner D.B.,
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"Small subunit of the mammalian mitochondrial ribosome. Identification
of the full complement ribosomal proteins present.";
Submitted (DEC-2000) to the SWISS-PROT data bank.
-!- SUBCELLULAR LOCATION: MITOCHONDRIAL.
                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea; Bovidae; Bovinae; Bos.
                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                     NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                      Rattus norvegicus (Rat).
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Rodentia;
                                                                                               33.3%;
100.0%;
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                                                                                                                                            MW;
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Pred. No. 4
2; Mismatch
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Last annotation updat
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                                                                                                                                            EFD3237B05A41376 CRC64;
                                                                                               Score 16;
Pred. No.
                                                                                                                                                                                                                                                                                               Craniata; Vertebrata; I
Sciurognathi; Muridae;
                                                                                                                                                                                                                                                                                                                                                                                      PRT;
                                                                                      Mismatches
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                                                                                                                                                                                                                    Roskams A.I.,
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4.7e+05;
                                                                                                                                                                                                between
                                                                                    4.7e+05;
thes 0;
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Dell'Orco
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                                                                                                                                                                                                                                                                                                         Euteleostomi;
                                                                                                                                                                                                                                                                                                Murinae; Rattus
                                                                                                                                                                                                                     R.T.,
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RESULT
Q9TWH6
ID Q9
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DT 01
DT 01
DT 01
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Q9BFA7
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Best Local S
Matches 2
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Best Local
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Q9BFA7;
01-JUN-2001 (TrEMBLrel. 1
01-JUN-2001 (TrEMBLrel. 1
01-JUN-2001 (TrEMBLrel. 1
CAMP RESPONSIVE ELEMENT M
Q9TWH6;
Q9TWH6;
01-MAY-2000
01-MAY-2000
01-MAY-2000
                                                                                                                                                                                         Murphy W.J., Eizirik O'Brien S.J.;
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Bacteria; Proteobacteria;
Coxiella group; Coxiella.
NCBI_TaxID=777;
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085406;
01-NOV-1998 (TrEMBLrel. 08, Created)
01-NOV-1998 (TrEMBLrel. 08, Last sequence
01-NOV-1998 (TrEMBLrel. 08, Last annotati
HYPOTHETICAL 1.0 KDA PROTEIN (FRAGMENT).
                                                                                                                                                                                                                                                                                                        Macroscelides proboscideus (Short-eared elephant shrew).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Macroscelidea; Macroscelididae; Macroscelides.
                                                                                                                                                                                                                                                                                                                                          CREM.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Coxiella burnetii.";
Submitted (MAY-1998) to the EMBL/GenBank/DDBJ databases
EMBL; AF064963; AAD09947.1; -
                                                                                                                                                                                                                       "Molecular phylogenetics and the origins of Nature 409:614-618(2001).
                                                                                                                                                                                                                                                                  MEDLINE=21082082;
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                                                                                                                                                                                                                                                                                               NCBI_TaxID=29082;
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"Physical a
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(TrEMBLrel. (TrEMBLrel. (TrEMBLrel.
                                           PRELIMINARY;
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Tohnson W.E.,
                                                                                                                                                                                           940 MW; DF1DD33AB5AB572A CRC64;
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                                                                                                                                                 27.1%;
66.7%;
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17, Last sequence update)
17, Last annotation updat
17, Last annotation updat
MODERATOR (FRAGMENT).
  13,
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Created)
Last sequence update)
Last annotation update)
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Last annotation updat
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Pred. No.
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4.7e+05;
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Best Local Similarity
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Q95213;
Q1-FEB-1997
Q1-FEB-1997
Q1-AUG-1998
GERMLINE DH
                       P70243 PRELIMINARY; PRT; 8 AA.
P70243;
01-FEB-1997 (TrEMBLrel. 02, Created)
01-FEB-1997 (TrEMBLrel. 02, Last sequence update)
01-AUG-1998 (TrEMBLrel. 07, Last annotation update)
SKELETAL MUSCLE-SPECIFIC CALCIUM CHANNEL (FRAGMENT)
Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mommalia; Eutheria; Rodentia; Sciurognathi; Muridae,
NCBI_TaxID-10090;
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SEQUENCE
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Mol. Immunol.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa;
Mammalla; Eutheria;
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Phyllodocida; Nereididae; Perinereis.
NCBI_TaxID~6355;
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nol. 0:0-0(0).
585; AAB18735.1;
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Metazoa; Chordata; Craniata; Vertebrata; Eu
utheria; Lagomorpha; Leporidae; Oryctolagus
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(TremBLrel. 02, Last sequence update)
(TremBLrel. 07, Last annotation updat
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EMBL; x98325; CAA66969.1; -.
Calcium channel.
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                        "peptides from the skin glands of Litori electrica. Comparison with rubella."
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Amphibia; Batrachia; Anura; Neobatrachia; Bufonoidea; Hylidae;
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                                                                                                         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleos Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostea; Actinopterygii; Percomorpha; Atherinomorpha; Acanthopterygii; Percomorpha; Atherinomorpha; Cyprinodontiformes; Aplocheilidae; Rivulinae; Gnatholebias. NCBI_TaxID=135316;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     050556;
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STRAIN-ATCC 33384;
MEDLINE-96355846; PubMed-8751884;
Kolodrubetz D., Spitznagel J. Jr.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Actinobacillus actinomycetemcomitans (Haemophilus actinomycetemcomitans).
Bacteria; Proteobacteria; gamma subdivision; Pastactinobacillus.
NCBI_TaxID=714;
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MOD_RES
  SEQUENCE FROM N.A.
Murphy W.J., Thomerson J.E., Collier G
"A molecular phylogeny of Neotropical
(Cyprinodontiformes, Rivulidae).";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "cis Elements and trans factors are both important in
regulation of the leukotoxin gene in Actinobacillus
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P82065;
01-MAY-2000 (T)
01-MAY-2000 (T)
01-MAY-2000 (T)
TRYPTOPHYLLIN (T)
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049223;
01-JUN-1998
01-JUN-1998
01-NOV-1998
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   TISSUE-SKIN SECRETION; Steinborner S.T., Wabr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "A plant DNA binding protein shares highly conserved sequence with HMG-box proteins."; Nucleic Acids Res. 19:4769-4769(1991).
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                                                                       SEQUENCE,
                                                                                                                                                                                                     Amphibia;
                                                                                                                                                                                                                                    Litoria rubella (Desert tree frog).
Eukaryota; Metazoa; Chordata; Crani
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                                                                                                                                 NCBI_TaxID=104895;
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1; Conser
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1; Conservative
                                                                       AND MASS SPECTROMETRY
                                                                                                                                                                                                     Batrachia;
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(TrEMBLrel. 06, Last sequence update)
(TrEMBLrel. 08, Last annotation update)
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   Wabnitz P.A., Waugh R.J.,
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PubMed=1891369;
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100.0%; Pr
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Neobatrachia;
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a; Bufonoidea; Hylidae;
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4.7e+05;
thes 0;
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      Bowie J.H.,
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SEQUENCE FROM N.A. MEDLINE-20022990;
                                                    Buchmera aphidicola,
Bacteria; Proteobacteria;
NCBI_TaxID:9;
                                                                                                                                              01-MAY-2000 (TrEMBLrel. 13, 01-MAY-2000 (TrEMBLrel. 13, 01-JUN-2001 (TrEMBLrel. 17,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TISSUE-SKIN SECRETION;
Wabnitz P.A., Bowle J.H., Tyler M.
"Peptides from the skin glands of
Litori electrica. Comparison with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Litoria rubella (Desert tree frog).
Eukaryota; Metazoa; Chordata; Cranlata; Va
Amphibia; Batrachia; Anura; Neobatrachia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-MAY-2000 (TrEMBLrel. 13, 01-MAY-2000 (TrEMBLrel. 13, 01-MAY-2000 (TrEMBLrel. 13, ELECTRIN 5.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Amphibian skin; Amidation. MOD_RES 7 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 rubella."
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les 1; Conserv
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llarity 100.0%;
Conservative
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el. 13, Last sequence update)
el. 17, Last annotation update
(FRAGMENT).
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4.7e+05;
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a; Bufonoidea; Hylidae;
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Q1-NOV-1996 (TrEMBLrel. 01,
Q1-NOV-1996 (TrEMBLrel. 07,
Q1-AUG-1998 (TrEMBLrel. 07,
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O9RQ49; O1-MAY-2000 (TrEMBLrel. 13,
O1-MAY-2000 (TrEMBLrel. 13,
O1-MAY-2000 (TrEMBLrel. 13,
                                   Coolbaugh M.I., Chinault C.A., Bacaskey C.T.H.;
       NON_TER
                                                                                        Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=9606;
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"Sequence evolution in bacterial endosymbionts having compositions.";
Mol. Biol. Evol. 16:1586-1598(1999).
EMBL, AF130812; AAF13797.1; -...
                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A. MEDLINE-20022990;
                        EMBL;
                                Hum. Mol.
                                                                TISSUE-PLACENTA;
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                                                                                                                   Homo sapiens (Human)
                                                                                                                           (CLONE XP15H8A) (FRAGMENT).
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                                               1., Bailey J
Baldini A.,
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4.7e+05;
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Q15890;
01-NOV-1996
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Q15898;
Q1-NOV-1996 (TrEMBLrel. 01,
Q1-NOV-1996 (TrEMBLrel. 01,
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                 EMBL;
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
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                                     SEQUENCE
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                                                                                          Lee C.C., Yazdani A., Wehnert M.,
Coolbaugh M.I., Chinault C.A., Bal
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ldini A., L
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RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,
RA Borkova D., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
Charley S., Dahlke C., Davenport L.B., Davies P.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
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RA Choris R., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Dodson K., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McBherson D.,
RA Mersulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Mersulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
RA Rainert K., Remington K., Saunders R., D.C., Scheeler F., Shen H.,
RA Rhinert K., Remington K., Saunders R., D.C., Scheeler F., Shen H.,
RA Shue R G., Siden R., Sannes T., Simnson M., Skinnski M. P., Smith T.
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Q9VRD2;
01-MAY-2000
01-MAY-2000
01-MAY-2000
                                                                                                                                                      Shue B.C., Siden-Riamos I., Simpson M., Skupski M.P., Smith T., Spier E., Spradling A.C., Stapleton M., Strong R., Sun E., Syirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X., Wang Z.-y., Wassaman D.A., Weinstock G.M., Weissenbach J., Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A., Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.; "The genome sequence of Drosophila melanogaster."; Science 287:2185-2195(2000).
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                                                                                        EMBL; AE003569; AAF50870.1; -. FlyBase; FBgn0040648; CG11666. SEQUENCE 8 AA; 1062 MW; ED
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22.9%;
100.0%;
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Pred. No.
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  DB 5; L, 4.7e+05;
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P82685
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Best Local S
Matches 1
                                                                                                                                                                                             TISSUE-CORPORA CARDLES.;

MEDLINE-98010462; PubMed-9350979;

Prodel R., Keliner R., Rapus J., Penziin H., Gaede G.;

Prodel R., Keliner R., Rapus J., Penziin H., Gaede G.;

"Isolation and structural elucidation of eight kinins from the "Isolation and structural elucidation of eight kinins from the "Isolation" acmniex of the American cockroach, Peripianeta
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TISSUB-CORPORA CARDIACA;
MEDLINE-98010462; PubMed-9350979;
MEDLINE-98010462; PubMed-9350979;
Predel R., Kellner R., Rapus J., Penzlin H., Gaede G.;
Predel R., Kellner R., Rapus J., Penzlin H., Gaede G.;
"Isolation and structural elucidation of eight kinins from the "Isolation ackroach, Periplaneta"
                                                                                                                                                                                                                                                                                                                                                                                                                                  Periplanèta americana (American cockroach).

Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;

Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;

Blattoidea; Blattidae; Periplaneta.
  Neuropeptide; Amidation.
MOD_RES 8 8 8
SEQUENCE 8 AA; 856 MW.
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01-MAR-2001 (TrEMBLrel. 16, Last seq
01-MAR-2001 (TrEMBLrel. 16, Last ann
KININ-2 (PEA-K-2).
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MOD_RES 8 8
SEQUENCE 8 AA; 950 MW;
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Eukaryota; Mctazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroldea; Dictyoptera; Blattaria;
Blattoldca; Blattidae; Periplaneta.
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                                                                            (MYOTROPIC ACTIVITY).
-!- SIMILARITY: BELONGS TO THE KININ FAMILY
                                                                                                                                                                                                                                                                                                                               TISSUE CORPORA CARDIACA;
                                                                                                                                                                                                                                                                                                                                                         SEQUENCE, AND FUNCTION
                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID-6978;
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SIMILARITY: BELONGS TO THE KININ FAMILY.
                                                                                                                               PUNCTION: MEDIATES VISCERAL MUSCLE CONTRACTILE
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AMIDATION.
DC6365A5B9D5BDDA CRC64;
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0; Mismatches
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P82688;
01-MAR-2001 (TrEMBLrel. 1
01-MAR-2001 (TrEMBLrel. 1
01-MAR-2001 (TrEMBLrel. 1
KININ-4 (PEA-K-4).
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P82687;
01-MAR-2001 (TrEMBLrel. 16, C
01-MAR-2001 (TrEMBLrel. 16, L
01-MAR-2001 (TrEMBLrel. 16, L
KININ-3 (PEA-K-3).
                                                               SEQUENCE, AND FUNCTION.
TISSUE-CORPORA CARDIACA;
TISSUE-CORPORA CARDIACA;
MEDLINE-98010462; PubMed-9350979;
Predel R., Kellner R., Rapus J., Penzlin H., Gaede G.;
"Isolation and structural elucidation of eight kinins from the structural elucidation of eight kinins from the structural elucidation of eight kinins from the structural elucidation of eight kinins from the structure of the American cockroach, Periplaneta
Regul. Pept. 71:199-205(1997).
-i- FUNCTION: MEDIATES VISCERAL MUSCLE CONTRACTILE ACTIVITY
-i- SIMILARITY: BELONGS TO THE KININ FAMILY.
                                                                                                                                                                      Periplaneta americana (American cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Bli
Blattoidea; Blattidae; Periplaneta.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             americana.";
Regul. Pept. 71:199-205(1997).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Periplaneta americana (American cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blattoidea; Blattidae; Periplaneta.
NCBI_TaxID=6978;
                                                       americana.";
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MEDLINE=98010462; PubMed=9350979;
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EY MOLES 8 AX. 839 MW; 733355ASB9D6DDD8 CRC64;

SQ SEQUENCE 8 AX. 839 MW; 733355ASB9D6DDD8 CRC64;

Ouery Match
Matchas 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 W 7

Db 7 W 7

Search completed: January 14, 2002, 06:47:42

Db time: 385 sec
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Result
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     score greater than or equal
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2: /cgn2_6/ptodata/2,

3: /cgn2_6/ptodata/2,

4: /cgn2_6/ptodata/2,

5: /cgn2_6/ptodata/2,

6: /cgn2_5/ptodata/2,
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Copyright (c) 1993 - 2000 Comp
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US-08-340-208B-5
US-08-340-208B-5
US-08-997-263-4
US-08-997-263-5
US-08-1997-263-1
US-08-170-160-10
US-08-170-150-10
US-09-127-574-1
US-09-131-995-13
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Sequence 48, Appl	Sequence 1, Appli	Sequence 2, Appli	Sequence 8, Appli	Sequence 1488, Ap	Sequence 15, Appl	Sequence 327, App	Sequence 326, App	Sequence 4, Appli	Sequence 6, Appli	Sequence 254, App		Ó	•	•	•	Sequence 16, Appl	Sequence 45, Appl	Sequence 36, Appl	Sequence 8, Appl1	Sequence 19, Appl		Sequence 14, Appl

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; MOLECULE TYPE: US-08-031-538-32
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US-08-031-538-32
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                        APPLICATION NUMBER: US/08/031
FILING DATE: 19930315
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REGISTRATION NUMBER: TSR5
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-554-2937
TELEFAX: 619-554-6312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                        INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: SUTCILLE,
APPLICANT: Erlander, Mark G
APPLICANT: Lovenberg, Timothy W
TITLE OF INVENTION: HUMAN SEROTONIN RECEPTORS, DNA ENCODING
TITLE OF INVENTION: THE RECEPTORS, AND USES THEREOF
TITLE OF SEOUENCES: 73
                                                                                                                                                                                                                                                                                                       ZIP: 92037

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version

CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
ADDRESSE: The Scripps Research Institute, Office cappresse: Patent Counsel
ADDRESSE: Patent Counsel
STREET: 10666 No. 5968817th Torrey Pines Road, TPC
                                                                                                                                                                                                                                                                                                                                                                                                                                             STATE: C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET: 10666 N
                                    TOPOLOGY:
                                                       TYPE:
                                                                      LENGTH:
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งาว. 5968817
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                                    Linear
                 peptide
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Query Match

56.28;

Score 27;

DB 2;

Length 8;

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RESULT 2
US-08-350-260A-464
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 464, Application US/08350260A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Local Similarity 100 Matches 4; Conservative
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                                                                                             INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                 FILING DATE: 24 MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NIMBER: PCT/GB93/00605
                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: GB 9206318.9
FILING DATE: 24-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB91/01134
FILING DATE: 10-JUL-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: GB 9110549.4 FILING DATE: 15-MAY-1991 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC.DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                              TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                      FILING DATE: 16-SEP-1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 15-MAY-PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SERVER ADDRESS:
CORRESPONDENCE ADDRESS:
David W. Clough
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Smith, Andrew John Hammond
TITLE OF INVENTION: Methods for producing members of specific
TITLE OF INVENTION: binding pairs
                                                                       SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                           FILING DATE: 31-MAR-PRIOR APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION DATA:
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                                        TYPE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADDRESSEE: David W. Clough
STREET: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US/0 FILING DATE: 05-DEC-1994
                                                                                                                                                                 NAME: Clough, David W REGISTRATION NUMBER: 36,107
                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION:
                                                                                                                                                   REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY:
TOPOLOGY: linear
                   STRANDEDNESS:
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Griffiths, Andrew David
Williams, Samuel Cameron
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                                                                                                            312-474-6300
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31-MAR-1994
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                                                                                                                                       US-08-338-890B-2
                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDDERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
APPLICATION UMBER: US/08/338,890B
FILLING DATE: NOV. 14, 1994
CLASSIFICATION: 530
ATTORNEY/AGRAM --
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-338-890B-2
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                                                           Matches
                                                                         Query Match
Best Local
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Matches 2; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                              TELEFAX: (215)568-3439
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                REFERENCE/DOCKET NUMBER: UP TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Hirsch
APPLICANT: Spanev
APPLICANT: Nutt,
                                                                                                                                                                                                                                          FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION:
                                                                                                                                                                                                                                                          MOLECULE TYPE:
                                                          Local Similarity hes 3; Conserv
                                                                                                                                                   LOCATION: 2-3, Xaa at Line 72
OTHER INFORMATION: /label=prot
OTHER INFORMATION: /notes-"an
OTHER INFORMATION: support car
OTHER INFORMATION: amino group
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STREET: One Liberty CITY: Philadelphia
1 WKXFPY
                                                                                                                                                                                                                                                                         TYPE: amino acid TOPOLOGY: circular
                                                                                                                                                                                                                                                                                                                                                                TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                             REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz and No. 5700905ris
STREET: One Liberty Place, 46th Floor
                                                                                                                                                                                                                             NAME/KEY: Modified-site
                             1 WKIYSY 6
                                                                                                                                                                                                                                                                                                      CENGTH:
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                                                                                                                                                                                                                                                                                                                                                                                                                               Malinoski,
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                                                                                                                                                                                                                                                                                                       6 amino acids
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(215) TD NO: 2:
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                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Hirschmann,
Spanevello,
                                                                                                                                                                                                                                                                                                                                                                 (215)568-3100
                                                                                                                                                                                                                                                          peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ruth
                                                                                                                                                                                                                                                                                                                                                                                                                          Lynn
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33.3%;
                                                                         50.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic Somatostatin Mimics
                                                                                                                                                  /label=protecting1
/notes-"an amine protecting group or a solid support can be present or absent on the prima amino group", Xaa=Orn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ralph
                                                                                                                                                                                                                                                                                                                                                                                                            38,788
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                                                           Score 24; DB
Pred. No. 1.6e
1; Mismatches
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Pred. No.
                                                                             1.6e+05;
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                                                                                         DB 1;
                                                                                        Length 6;
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                                                             Indels
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US-08-338-890B-3; Sequence 3, Application US/08338890B

Patent No.

5700905

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                                                                                                                                 Sequence 2, Application US/08340208B Patent No. 5965694 GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REGISTRATION NUMBER: 38,788
REFERENCE/DOCKET NUMBER: UPN-2040
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215)568-3100
TELEFAX: (215)568-3439
INFORMATION FOR SEQ ID NO: 3:
                                              APPLICANT: Hirschmann, Ralph
APPLICANT: Spanevello, Rolando
TITLE OF INVENTION: Somatostatin Mimics And Synthetic
TITLE OF INVENTION: Methods Therefor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATTORNEY/AGENT INFORMATION:
NAME: Malinoski, Lynn
REGISTRATION NUMBER: 38,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
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ADDRESSEE: Woodcock, Washburn, Kurtz, Macklewicz and No. 5700905ris
STREET: One Liberty Place, 46th Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Hirschmann, APPLICANT: Spanevello, APPLICANT: Nutt, Ruth
CORRESPONDENCE ADDRESS: ADDRESSEE: Woodcock,
                                        NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OTHER INFORMATION: /label-protecting1
OTHER INFORMATION: /note-"an amine protecting group or a solid
OTHER INFORMATION: support can be present or absent on the primary
OTHER INFORMATION: amino group", Xaa: "Orn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION:
OTHER INFORMATION:
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FILING DATE: NOV. 14, 1994
CLASSIFICATION: 530
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TOPOLOGY: linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME/KEY: Modified-site
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3; Conserv
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/note⇒ "a carboxyl protecting group can be
present or absent on the hydroxyl group", Xaa=Orn
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Rolando
  Washburn,
                                                                                                                                                                                                                                                                                                                                                  Score 24; DB 1; Le
Pred. No. 1.6e+05;
"'" tches 2;
  Kurtz,
  Mackiewicz & No.
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    5965694ris
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US-08-340-208B-3
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                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 3, Application US/08340208B Patent No. 5965694
                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
APPLICANT: Hirschmann, Ralph
APPLICANT: Spanevello, Rolando
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX: (215)568-3439
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
              CURRENT APPLICATION DATA:
APPLICATION NUMBER: US
FILING DATE: NOV. 16,
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOLECULE TYPE: peptide FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE/DOCKET NUMBER: UP TELECOMMUNICATION INFORMATION: TELEPHONE: (215)568-3100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: WORDPERFECT CURRENT APPLICATION DATA:
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LOCATION: 2-3, xan at Line 72
COTHER INFORMATION: /label-prote
OTHER INFORMATION: support can a
OTHER INFORMATION: amino group"
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                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES:
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CITY: Philadelphia
                                                                                               MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WINDOWS
                                                                                                                                                                                                                       STREET: One Liberty CITY: Philadelphia
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OPERATING SYSTEM: MS-DOS/WINDOWS
                                                                                                                                                                         COUNTRY: USA
ZIP: 19103
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: amino acid TOPOLOGY: circula
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION:
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                                                                                 SOFTWARE:
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                                                                                  WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*)
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INFORMATION:
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                                                                                                                                                                                                                                                                                                                 Methods Therefor
                                                                                                                                                                                                                                                                                                                                    Somatostatin Mimics And
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /label-protecting1
/notes "an amine protecting group or a solid support can be present or absent on the primary amino group", Xaa-Orn
                                                 US/08/340,208B
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1; Mismatches
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Pred. No. 1.6e+05;
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                                                                                                                                                                                                                                                                                                                                  Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 6;
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REGISTRATION NUMBER:

38,788

Malinoski, Lynn

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Best Local Similarity
"he'hes 3; Conserv
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OTHER INFORMATION:
US-08-340-208B-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         us-08-997-263-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 2, Application US/08997263 Patent No. 6001960
                                                                                   PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/
FILING DATE: NOV. 14, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Malinoski, Lynn
NAME: Malinoski, Lynn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: Synthetic Somatostatin Mimics
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESS: Woodcock, Washburn, Kurtz, Mackiewicz and No. 6001960ris
STREET: One Liberty Place, 46th Floor
                                                                                                                                                                                                                            CURRENT APPLICATION DATA: APPLICATION NUMBER: US
                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Nutt, Ruth
REFERENCE/DOCKET NUMBER: UP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215)568-3100
TELEPEAX: (215)568-3439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: peptide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME/KEY: Modified-site
NAME/KEY: Modified-site
LOCATION: 3, Xaa at Line 100
CTHER INFORMATION: /label=protecting2
OTHER INFORMATION: /note= "a carboxyl protecting group can be
OTHER INFORMATION: present or absent on the hydroxyl group", Xaa=Orn
                                                                                                                                                                                                                                                           COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*)
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OTHER INFORMATION:
OTHER INFORMATION:
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                                                                         REGISTRATION NUMBER:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Spanevello, Rolando
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hirschmann,
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/note="an amine protecting group or a solid support can be present or absent on the primary
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                                                                                                                                                   US 08/338,890
                                                                                                                                                                                                                              US/08/997,263
                                                    38,788
ER: UPN-2040
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ralph
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Pred. No. 1.6e+05;
Pred. No. 1.6e+05;
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TELEFAX: (215)568-3439
INFORMATION FOR SEQ ID NO: 3
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                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/997,263
                                                                                                                                                                                                                                                 REGISTRATION NUMBER: 38,788
REFERENCE/DOCKET NUMBER: UP
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
APPLICATION NUMBER: U
FILING DATE: NOV. 14,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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ADDRESSEE: Woodcock,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Hirschmann, Ralph
APPLICANT: Spanevello, Rolando
APPLICANT: Nutt, Ruth
                                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
NAME: Malinoski, Lynn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Nutt, R
TITLE OF INVENTION:
                                                                                                        TOPOLOGY: linear MOLECULE TYPE: peptide
                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
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   OTHER INFORMATION:
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STREET: One Liberty CITY: Philadelphia
                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE:
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                                                        LOCATION:
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                                                                       NAME/KEY: Modified-site
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 /label=protecting1
/note="an amine protecting group or
support can be present or absent on
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support can be present or absent on the
amino group", Xaa=Orn
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Pred. No. 1.6e+05;
1; Mismatches 2
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; NAME/KEY: Modified-site; LOCATION: 6, Xaa at Line 100; OTHER INFORMATION: /label-pro; OTHER INFORMATION: /noteo "a; OTHER INFORMATION: present o; US-08-997-263-3
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APPLICANT: Gour, Barbara J.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR MODULATING TISSUE
TITLE OF INVENTION: PERMEABILITY
FILE REFERENCE: 100086.405C1
CURRENT APPLICATION NUMBER: US/09/222,373
CURRENT FILING DATE: 1998-12-39
EARLIER APPLICATION NUMBER: US 09/001,511
EARLIER FILING DATE: 1997-12-31
NUMBER OF SEQ ID NOS: 52
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 49
SEQ ID NO 49
                                                                                                                                                                                                        Sequence 4, Application US/08338890B
Patent No. 5700905
GENERAL INFORMATION:
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Best Local (
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH:
                                                                         NUMBER OF INVENTION: Synthetic Somatostatin Mimics
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz and No. 5700905ris
STREET: One Liberty Place, 46th Floor
ZIP: 19103
COMPUTER READABLE FORM:
                                                                                                                                                           APPLICANT: Hirschmann, APPLICANT: Spanevello, APPLICANT: Nutt, Ruth
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1 IYSY 4
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nes 4; Conserv
                           COUNTRY:
                                                 STATE:
                                                             CITY: Philadelphia
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/note⇔ "a carboxyl protecting group can be
present or absent on the hydroxyl group", Xaa=Orn
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, 1.6e+05;
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RESULT 11
US-08-338-890B-5
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                                                                                                                                                                                                                                                                           Sequence 5, Application US/08338890B Patent No. 5700905
                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 3; Conserv
                                                                                                                                                                                                                                                             GENERAL INFORMATION:
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INFORMATION FOR SEQ ID NO: 4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: Malinoski, Lynn
REGISTRATION NUMBER: 38,788
REFERENCE/DOCKET NUMBER: UP
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDDERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
                                                                                                                                                         TITLE OF INVENTION: SY
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
                              COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                             APPLICANT: Hirschmann, APPLICANT: Spanevello, APPLICANT: Nutt, Ruth
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OTHER INFORMATION: /
OTHER INFORMATION: /
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OTHER INFORMATION: 8
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OTHER INFORMATION:
OTHER INFORMATION:
OTHER INFORMATION:
                                                                                           ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz and No. 5700905ris
STREET: One Liberty Place, 46th Floor
CITY: Philadelphia
STATE: PA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/Us/
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TOPOLOGY: linear
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COMPUTER: IBM PC compatible OPERATING SYSTEM: MS-DOS/WINDOWS
                                                              COUNTRY: US
ZIP: 19103
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                                                                                                                                                                                                            Nutt, Ruth
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                                                                                                                                                                                 Synthetic Somatostatin Mimics 5
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/notes= "a hydroxyl protecting group can
present or absent on the hydroxyl group"
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/note= "an amine protecting group or support can be present or absent on tamino group"
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/note= "a methyl group is present on
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                                                                                                                                                                                                                           Rolando
                                                                                                                                                                                                                                            Ralph
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Pred. No.
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1.6e+05;
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ATTORNEY/AGENT INFORMATION:

CURRENT APPLICATION DATA

SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*)

US/08/338,890B

APPLICATION NUMBER: US/08/ FILING DATE: NOV. 14, 1994 CTASSTFICATION: 530

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US-08-340-208B-4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
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                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: (215)568-343 INFORMATION FOR SEQ ID NO:
                                                                                                                                                             CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz & No.
STREET: One Liberty Place, 46th Floor
                                                                                                                                                                                                                         APPLICANT: Hirschmann, Ralph
APPLICANT: Spanevello, Rolando
TITLE OF INVENTION: Somatostati
TITLE OF INVENTION: Methods The
NUMBER OF SEQUENCES: 5
               COMPUTER: IBM PC Compatible
\OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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OTHER INFORMATION:
                                                                                                                               COUNTRY:
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 APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: Modified-site
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                                                                                                                19103
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(215)568-3439
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/note= "an amine protecting group or a support can be present or absent on the amino group"
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/note= "a hydroxyl protecting group can be
present or absent on the hydroxyl group"
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/note= "a methyl group is
US/08/340,208B
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Pred. No.
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1.6e+05;
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                                                                                                                                                                                                                                                                            Sequence 5, Application US/08340208B Patent No. 5965694
GENERAL INFORMATION:
APPLICANT: Hirschmann, Ralph
APPLICANT: Spanevello, Rolando
TITLE OF INVENTION: Methods There
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best
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                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDPERFECT SAVED AS ASCII
                                                          SOFTWARE: WORDPERFECT CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS: ADDRESSEE: Woodcock,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
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ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                   STREET: One Libert
CITY: Philadelphia
STATE: PA
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OTHER INFORMATION:
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OTHER INFORMATION:
                           APPLICATION NUMBER: FILING DATE: NOV.
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les 3; Conserv
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            CLASSIFICATION
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                                                                                                                                                                    COUNTRY:
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                                                                                                                                                       19103
                                                                                                                                                                                                                 E: Woodcock, Washburn, Kurtz, Mackiewicz & No. One Liberty Place, 46th Floor
                                                                                                                                                                    USA
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(215)568-3439
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                             NOV. 16, 1994
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                                                                                                                                                                                                                                                                             Somatostatin Mimics
Methods Therefor
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /label= protecting3
/notes= "a hydroxyl protecting group can
present or absent on the hydroxyl group"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /label= methyl
/note= "a methyl group is present on the amino
group"
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/note= "an amine protecting group or a solid
support can be present or absent on the primary
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                                             US/08/340,208E
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                                                                           (DOS) TEXT(*.*)
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REGISTRATION NUMBER:

38,788

UPN-2041

Malinoski, Lynn

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US-08-997-263-4
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Best Local Similarity 50.0
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                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
APPLICANT: Hirschmann,
APPLICANT: Spanevello,
APPLICANT: Nutt, Ruth
TITLE OF INVENTION: Syn
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INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (215)568-3100
                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSE: Moodcock, Washburn, Kurtz, Mackiewicz and No.
STREET: One Liberty Place, 46th Floor
CITY: Philadelphia
STATE: PA
                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATEIBLE
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDPERFECT SAVED AS ASCII
CURRENT APPLICATION DATA:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 0
FILING DATE: NOV. 14, 19
ATTORNEY/AGENT INFORMATION:
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OTHER INFORMATION:
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OTHER INFORMATION:
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OTHER INFORMATION: /note= "an amine protecting group or a solid
OTHER INFORMATION: support can be present or absent on the primary
OTHER INFORMATION: amino group"
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TOPOLOGY: circular
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                                                                                           FILING DATE:
                                                                                                           APPLICATION NUMBER:
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/note- "a methyl group is present
group"
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/noteo "a hydroxyl protecting group can present or absent on the hydroxyl group"
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Pred. No. 1.6e+05;
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US-08-997-263-5
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Patent No. 6001960
GENERAL INFORMATION:
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Best Local S
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INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Malinoski, Lynn
REGISTRATION NUMBER: 38,788
REFERENCE/DOCKET NUMBER: UPI
TELECOMMUNICATION INFORMATION:
                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*)
                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz and No. 6001960ris
STREET: One Liberty Place, 46th Floor
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          PRIOR APPLICATION DATA:
APPLICATION NUMBER: U
FILING DATE: NOV. 14,
                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Hirschmann, APPLICANT: Spanevello, APPLICANT: Nutt, Ruth
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MOLECULE TYPE: peptide
                                                                                                                   CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                             OP INVENTION: Synthetic Somatostatin Mimics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OTHER INFORMATION:
OTHER INFORMATION:
OTHER INFORMATION:
OTHER INFORMATION:
ATTORNEY/AGENT INFORMATION:
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LOCATION:
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OTHER INFORMATION:
OTHER INFORMATION:
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hes 3; Conserv
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                                                                                                                                                                                                                                                    STREET: One Libert: CITY: Philadelphia STATE: PA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: amino acid TOPOLOGY: linear
                                                                 CLASSIFICATION:
                                                                                 FILING DATE:
                                                                                               APPLICATION NUMBER:
                                                                                                                                                                                                                      ZIP: 19103
                                                                                                                                                                                                                                 COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 WKIYSY 6
                                                                                                                                                                                                                                    USA
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/note= "a methyl group is present on the group"
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/notes= "a hydroxyl protecting group can
present or absent on the hydroxyl group"
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/note- "an amine protecting group or a solid support can be present or absent on the primary
               us 08/338,890
4, 1994
                                                                                                 US/08/997,263
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
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1.6e+05;
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REFERENCE/DOCKET NUMBER: UP TELECOMMUNICATION INFORMATION:

REGISTRATION NUMBER:

38,788

UPN-2040

Malinoski, Lynn

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RESULT 16
US-08-444-818-282
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Best Local Similarity
"~+rhes 3; Conserva
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                                                                                                                                                                                                                                                                                                                                                                                        Sequence 282, Application US/08444818
Patent No. 6150087
GENERAL INFORMATION:
APPLICANT: Chien, David Y.
APPLICANT: Rutter, William J.
APPLICANT: Nutrer, William J.
TITLE OF INVENTION: WANBY Diagnostics and Vaccines
NUMBER OF SEQUENCES: 777
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEPHONE: (215)568-3100
TELEFAX: (215)568-3439
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
                                                    CLASSIFICATION: 424
PRIOR APPLICATION DATA:
FILING DATE: 14-MAR-1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION:
OTHER INFORMATION:
FEATURE:
                *(APPLICATION NUMBER: US/08/403,590 FILING DATE: 14-MAR-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY:
LOCATION:
                                                                                                 FILING DATE:
                                                                                                                                                                                                                                                          COUNTRY: USA
ZIP: 94608-2916
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OTHER INFORMATION: /note= "an amine protecting group or a solid of the information: support can be present or absent on the primary of the information: amino group"
                                                                                                                 APPLICATION NUMBER:
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TOPOLOGY: circular
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/note= "a hydroxyl protecting group can be
present or absent on the hydroxyl group"
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                                                                                                                   US/08/444,818
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Pred. No. 1.6e+05;
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Best Local Similarity
"hes 2; Conserv?
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US-08-435-568A-19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-444-818-282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: P
SEQ ID NO 19
LENGTH: 4
TYPE: PRT
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Best Local Similarity 3/...
Thes 3; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Greve, Jeffrey M.
APPLICANT: McCLelland, Alan
APPLICANT: Davis, Gary
TITLE OF INVENTION: Soluble Truncated Form
FILE REFERENCE: MCI 208.4C2D2
CURRENT APPLICATION NUMBER: US/08/435,568A
CURRENT FILING DATE: 1995-05-05
NUMBER OF SEQ ID NOS: 34
COLUMN NUMBER: DEFERENCE: 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 19, Application US/08435568A Patent No. 6143298
                                                                                                                                         GENERAL INFORMATION: Albert P. S.
APPLICANT: Tseng, Albert P. S.
APPLICANT: Inglis, Adam
TITLE OF INVENTION: PLA2 INHIBITORY COMPOUNDS
NUMBER OF SEQUENCES: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: (508)359-3885
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REGISTRATION NUMBER: 33,895
REFERENCE/DOCKET NUMBER: 01:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (508)359-3876
                                                                                                                                 CORRESPONDENCE ADDRESS:
                                                                         STREET: Suite 70 CITY: Washington STATE: D. C.
                                              COUNTRY: UZIP: 20004
                                                                                                                    ADDRESSEE:
                                                                                                                                                                                                                                                                                                          1 WKLF
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                                                                                                   E: Rothwell,
Suite 701-E,
                                                          U.S.A.
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E: Floppy disk
IBM PC compatible
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37.5%;
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Pred. No. 1.6e+05;
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Pred. No. 1.6e+05;
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ÓPERATING SYSTEM: PC-D SOFTWARE: Patentin Rel CURRENT APPLICATION DATA:

PC-DOS/MS-DOS n Release #1.0, Version #1.25

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                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-127-574-9
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Best Local Similarity 75.0
Thes 3; Conservative
                                                                                                                                                                                                               APPLICANT: Lang, John M.
APPLICANT: Baumbach, George A.
APPLICANT: Carbonell, Ruben G.
TITLE OF INVENTION: Alpha-1 Proteinase Inhibitor Binding Peptides
FILE REFERENCE: MSB-7248
CURRENT APPLICATION NUMBER: US/09/127,574
CURRENT FILING DATE: 1998-07-31
NUMBER OF SEO ID NOS: 62
SOFTWARE: Patentin Ver. 2.0
SEO ID NO 9
LENGTH: 6
                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
APPLICANT: Bastek, Patrick
                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 9, Application US/09127574 Patent No. 5985836
                                                                            Query Match
Best Local :
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                                                                                                                                                                      ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                     TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Ernst, Barbara G. 377
REGISTION NUMBER: 30,377
REFERENCE/DOCKET NUMBER: 18
TELECOMMUNICATION INFORMATION:
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APPLICATION UMBER: AU PI
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PRIOR APPLICATION NUMBER: APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
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MOLECULE TYPE: PE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 04-JUL-1991 ATTORNEY/AGENT INFORMATION:
                                                                         Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: amino acid
STRANDEDNESS: sir
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                             WKIYSY 6
WKLWRW 6
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                                                            Conservative
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75.0%;
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                                                                         Score 21; DB 2;
Pred. No. 1.6e+05;
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Pred. No. 1.6e+05;
0; Mismatches 1
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                                                            Mismatches
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; FEATURE: ; OTHER INFORMATION: Description of Artificial Sequence:Synthetic US-09-127-574-17
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US-09-131-995-13
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Best Local S
Matches 3
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LENGTH: 6
TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 13, Application US/09131995 Patent No. 5972896
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 17, Application US/09127574 Patent No. 5985836
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Baumbach, George A.
APPLICANT: Carbonell, Ruben F.
TITLE OF INVENTION: Alpha-1 Proteinase Inhibitor Binding Peptides
FILE REFERENCE: MSB-7248
CURRENT APPLICATION UMMBER: US/09/127,574
CURRENT FILING DATE: 1998-07-31
NUMBER OF SEQ ID NOS: 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: PatentIn Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Lang, John M.
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
                                             NAME: Casuto, Dianne 40,943
REGISTATION NUMBER: 59,43
REFERENCE/DOCKET NUMBER: 594
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847-938-3137
                                                                                                                           APPLICATION NUMBER: 08/643,219
FILLING DATE: 06-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: 0-0-1-
                                                                                                                                                                                   PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/O
FILING DATE: 03-APR-1997
                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                SOFTWARE: FastSEQ Version 2.0 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
Abbott Laboratories
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Davidsor TITLE OF INVENTION: TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                             FILING DATE:
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                             OPERATING SYSTEM:
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                                                                                                                                                                      APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                      COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: Abbott Park
                                TELEFAX:
                                                                                                                                                                                                                                                                                APPLICATION NUMBER:
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3; Conserv
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                                  847-938-2623
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                                                                                                                                                                                                                                                                                                                                                                     Diskette
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AND METHODS FOR INHIBITING ANGIOGENESIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NOVEL ANTIANGIOGENIC PEPTIDES
                                                                                                                                                                                                           US/08/832,087
                                                                                                                                                                                                                                                                                US/09/131,995
 13:
                                                                                     5940.US.P1
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Pred. No. 1.6e+05;
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FEATURE:
OTHER INFORMATION:
US-09 131-995-14
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US-09-131-995-14
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OTHER INFORMATION: Tyr number 7 is 3-I-Tyr.
US-09-131-995-13
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Patent No. 5972896
GENERAL INFORMATION:
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Best Local
                                                                                                                                           INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                        NAME: Casuto, Dianne
REGISTRATION NUMBER: 40,943
REFERENCE/DOCKET NUMBER: 59-
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847-938-3137
                                                                                                                                                                                                                                                                     FILING DATE: 06-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Casuto Diano
                                                              MOLECULE TYPE:
DESCRIPTION:
                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
APPLICATION NUMBER: U5/08/832,087
FILING DATE: 03-APR-1997
APPLICATION NUMBER: 08/643,219
                                                                                                                                                                                                                                                                                                                                                                                                                                  OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ Version 2.0
CURRENT APPLICATION DATA:
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CORRESPONDENCE ADDRESS:
ADDRESSE: Abbott Laboratories
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TITLE OF INVENTION: NOVEL ANTIANGIOGENIC PEPTIDES
TITLE OF INVENTION: AND METHODS FOR INHIBITING ANGIOGENESIS
                                                 FRAGMENT TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS
LENGTH: 7 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FRAGMENT TYPE:
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                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/09/131,995 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CITY: Abbott Park STATE: IL
                                                                                               TOPOLOGY:
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                                                                                                                            LENGTH:
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                                                                                                             amino acid
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                                                                                                                            7 amino acids
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internal fragment
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internal fragment
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                Tyr number 5 is 3-I-Tyr.
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Pred. No.
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1.6e+05;
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Query Match

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Length 7;

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US-08-832-087B-14
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                         Sequence 14, Application Patent No. 5981484
GENERAL INFORMATION:
                                                                                                                                                                                                  Query Match
Best Local Similarity
Matches 3; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                       DESCRIPTION: peptide FRAGMENT TYPE: internal fragment FEATURE: OTHER INFORMATION: Tyr number 7 is 3-I-Tyr.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION UNMBER: 08/6
FILING DATE: 06-MAY-1996
ATTORNEY/AGENT INFORMATION:
APPLICANT: Davidson, Donald J.
TITLE OF INVENTION: NOVEL ANTIANGIOGENIC PEPTIDES
                                                                                                                                                                                                                                                                                                                                                          MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELECOMMUNICATION INFORMATION: TELEPHONE: 847-938-3137
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MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Davidson, TITLE OF INVENTION: 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US/0 FILING DATE: 03-APR-1997
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                                                                                                                                       3 KLYDY
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: Casuto, Dianna REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OPERATING SYSTEM:
SOFTWARE: FastSE
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CITY: Abbott Park
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                                                                                                                                                                                                                                                                                                                                                                                       TYPE:
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                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH:
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                                                                                                                                                                                                                                                                                                                                                                                     amino acid
                                                            Application US/08832087B
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                                                                                                                                                                                                    Score 21; DB 2;
Pred. No. 1.6e+05;
1; Mismatches 1
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1; Mismatches 1;
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                                                                                                                                                                                                                                                                                                                      Sequence 6, Application US/08851350 Patent No. 6057122 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mutches
                         COUNTRY: USA
ZIP: 60064-3500
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: DISKCTLE
COMPUTER: IBM COMPALIBLE
COMPUTER: IBM COMPALIBLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTMARE: FastSEQ Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/832,08
FILING DATE: 03-APR-1997
CLASSIFICATION: 514
PRIOR APPLICATION: 514
PRIOR APPLICATION DATA:
APPLICATION UMBER: 08/643,219
FILING DATE: 06-MAY-1996
ATTORNET/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 7 amino acids
                                                                                                                                                                                                                                                APPLICANT: Abbott Le
TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FRAGMENT TYPE: internal fragment
FEATURE:
OTHER INFORMATION: Tyr number 5 is 3-I-Tyr.
                                                                                                                                  NUMBER OF SEQUENCES: 38
CORRESPONDENCE ADDRESS:
ADDRESSE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
STATE: IL
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REFERENCE/DOCKET NUMBER: 5940.US.Pl
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847-938-3137
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DESCRIPTION:
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NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity 60.1
nes 3; Conservative
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TELEFAX: 847-938-2623
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ Version 2.0
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TOPOLOGY: linear
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internal fragment
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                                                                                                                                                                                                                                              NOVEL ANTIANGIOGENIC PEPTIDES, POLYNUCLEOTIDES ENCODING SAME AND METHODS FOR INHIBITING ANGIOGENESIS
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Pred. No. 1.6e+05;
1; Mismatches 1
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Search completed: January 14, 2002, 06:42:43 Job time: 701 sec
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                                                                                                                                                                                                                                          US-08-851-350-6
                                                                                                                                                   Query Match 43.8%;
Best Local Similarity 60.0%;
Matches 3; Conservative
                                                                                                                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER: 40,943
REFERENCE/DOCKET NUMBER: 5940
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847-938-3137
TELEPAX: 847-938-2623
TELEX:
                                                                                                                                                                                                                                                                                                                          INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 7 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 05-MAY-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION DATA:
APPLICATION NUMBER: US
FILING DATE: 05-MAY-19
                                                                                                                                                                                                                                                           MOLECULE TYPE:
                                                                                                                                                                                                                                                                        TYPE: amino acid
STRANDEDNESS: sir
TOPOLOGY: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME: Casuto, Dianne REGISTRATION NUMBER:
                                                                                     3 KLYDY 7
                                                                                                                     2 KIYSY 6
                                                                                                                                                                                                                                                                        unknown
                                                                                                                                                                                                                                                        peptide
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                                                                                                                                                   Score 21; DB 3;
Pred. No. 1.6e+05;
1; Mismatches 1
                                                                                                                                                                                     Length 7;
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Gaps

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GenCore version 4.5
Copyright (c) 1993 - 2000 Compugen Ltd.

OM protein - protein search, using sw model

Run on:
January 14, 2002, 07:37:34; Search time 43.28 Seconds
(without alignments)
14.080 Million cell updates/sec

Title:
Perfect score: 36
Sequence: 1 wkxxsyxg 8

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5
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Minimum DB seq length: 0
Maximum DB seq length: 8

Total number of hits satisfying chosen parameters:

602

219241 seqs, 76174552 residues

Searched:

Post-processing: Minimum Match Maximum Match Listing first

1 0% 1 100% 50 summaries

Database: PIR_68:*
1: Pir1:*
2: pir2:*
3: pir3:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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A4300			w	12	17
PQ001			w	12	16
			w	12	15
			w	12	14
		٠	w	12	13
			w	12	12
			ω	12	11
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ALIGNMENTS

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neuromodulatory peptide wWamide-3 - giant African snail
C;Species: Achatina fulica (giant African snail)
C;Species: Achatina fulica (giant African snail)
C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 24-Jul-1997
C;Accession: S33246
R;Minakata, H.; Ikeda, T.; Muneoka, Y.; Kobayashi, M.; Nomoto, K.
FEBS Lett. 332, 104-108, 1993
A;Title: WWamide-1, -2 and -3: novel neuromodulatory peptides isolated from ganglia o A;Reference number: S33244; MUID:93265912
A;Reference number: S33244; MUID:93265912
A;Ression: S33246
A;Status: preliminary
A;Rocession: protein
A;Ressidues: 1-7 <MIN>
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FEBS Lett. 323, 104-108, 1993
A;Title: WWamide-1, -2 and -3: novel neuromodulatory peptides isolated from ganglia o A;Reference number: S33244; MUID:93265912
A;Accession: S33244
A;Status: preliminary
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C;Species: Achatina fulica (giant African snail)
C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 24-Jul-1997
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A; Molecule type: DNA
A; Residues: 1-8 <WHE>
C; Keywords: T-cell re
                                                                                      R:Whetsell, M.; Mosley, R.L.; Whetsell, L.; Schaefer, F.V.; Mol. Cell. Biol. 11, 5902-5909, 1991
A:Title: Rearrangement and junctional-site sequence analyses A:Reference number: A41946; MUID:92049316
A:Accession: A38887
                                                                                                                                                                                                   C;Species: Mus musculus (house mouse)
C;Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 07-May-1999
C;Accession: A38887
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A38887
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Thes 2; Conserve
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R.Minakata, H.; Ikeda, T.; Muneoka, Y.; Kobayashi, M.; Nomoto, K. FEBS Lett. 323, 104-108, 1993
A.Title: WWamide-1, -2 and -3: novel neuromodulatory peptides isolated from A; Reference number: S33244; MUID:93265912
A.Accession: S33244; MUID:93265912
A. Molecule type: protein A; Residues: 1-7 <MIN>
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A;Accession: S63493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         dissimilatory sulfite reductase gamma chain, membrane-bound and soluble - Desulfovibrio C;Species: Desulfovibrio desulfuricans C;Date: 28-Oct-1996 #sequence_revision 13-Mar-1997 #text_change 17-Mar-1999 C;Accession: S63493; S63494
                                                                A: Status: preliminary; not compared with conceptual translation
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Status: preliminary
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. 2.2e+05;
. 2.3e+05;
                                                                                                                                                                            Schaefer, F.V.; Miller, K.S.; Klein,
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2.2e+05;
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PT0278
Ig heavy chain CRD3 region (clone 4-88) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
C;Accession: PT0278
R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.
J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity and R;Reference number: PT0222; MUID:91108337
A;Accession: PT0278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            R;Leung, M.K.; Stefano, G.B.

Proc. Natl. Acad. Sci. U.S.A. 81, 955-958, 1984
A;Title: Isolation and identification of enkephalins in pedal ganglia of Mytilus edul A;Reference number: A61445; MUID:84144823
A;Accession: A61445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Met-enkephalin - blue mussel
C;Species: Mytilus edulis (blue mussel)
C;Date: 07-Oct-1994 #sequence_revision (
C;Accession: A61445
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Proc. Natl. Acad. Sci. U.S.A. 81, 955-958, 1984
A;Title: Isolation and identification of enkephalins in pedal ganglia of Mytilus edul
A;Reference number: A61445; MUID:84144823
A;Accession: B61445
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C;Species: Mytilus edulis (blue mussel)
C;Date: 07-Oct-1994 #sequence_revision 07-Oct-1994 #text_change 21-Jan-2000
C;Accession: B61445
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B61445
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A; Residues: 1-5 <LEU>
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RESULT
S66195
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J. Exp. Med. 173, 395-407, 1991
A:Title: Preferential utilization of specific
A:Reference number: PT0222; MUID:91108337
A:Accession: PT0308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ig heavy chain CRD3 region (clone 6-88) - human (fragment) C;Species: Homo sapiens (man) C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_cC;Accession: PT0308
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A; Residues: 1-5 <YAM>
A; Experimental source: B lyn
C; Keywords: heterotetramer;
dihydrofolate reductase (EC 1.5.1.3) / thymidylate synthase C;Species: Plasmodium falciparum C;Date: 28-Feb-1990 #sequence_revision 28-Feb-1990 #text_cha
                                         RESULT
A31263
                                                                                                                                                                                                                                                                                                                                                                                    alcohol dehydrogenase (EC 1.1.1.1) class III low affinity form - cod (Gadus C:Species: Gadus sp. (cod)
C:Date: 19-Mar-1997 #sequence_revision 29-Aug-1997 #text_change 12-Jun-1998
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A; Residues: 1-5 < YAM>
A; Experimental source: B lymphocyte
C; Keywords: heterotetramer; immunoglobulin
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FEBS Lett. 367, 237-240, 1995
A;Title: Multiplicity of N-terminal structures
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                                                                                                                                                                                                                             C;Superfamily: alcohol dehydrogenase; long-chain alcohol dehydrogenase homology C;Keywords: alcohol metabolism; NAD; oxidoreductase
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#text_change, 20-Mar-1996
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R;Peterson, D.S.; Walliker, D.; Wellems, T.E.
Proc. Natl. Acad. Sci. U.S.A. 85, 9114-9118, 1988
A;Title: Evidence that a point mutation in dihydrofolate
A;Reference number: A94217; MUID:89057886
A;Accession: B31263
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R;Peterson, D.S.; Walliker, D.; Wellems, T.E.
Proc. Natl. Acad. Sci. U.S.A. 85, 9114-9118, 1988
A;Title: Evidence that a point mutation in dihydrofolate reductase-thymidylate syntha A;Reference number: A94217; MUID:89057886
A;Accession: A31263
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                                                                                                                                                                                                                        R;Chen, Y.T.; Rettig, W.J.; Yenamandra, A.K.; Kozak, C.A.; Chaganti, R.S.K.; Proc. Natl. Acad. Sci. U.S.A. 87, 3077-3081, 1990
A;Title: Cerebellar degeneration-related antigen: a highly conserved neuroect A;Reference number: A35640; MUID:90222173
A;Accession: B35640
                                                                                                                                                                                                                                                                                                                     cerebellar degeneration-related protein - mouse (fragment)
C;Speckes: Mus musculus (house mouse)
C;Date: 28-Sep-1990 #sequence_revision 28-Sep-1990 #text_change 24-Jun-1993
C;Accession: B35640
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A; Residues: 1-6 < PET>
C; Keywords: methyltransferase;
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A; Residues: 1-6 <CHE>
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R; Fan, Z.W.; Eng, J.; Shaw, G.; Yalow, R.S. peptides 9, 429-431, 1988
A; Title: Cholecystokinin octapeptide purified A; Reference number: PQ0012; MUID:88234141
A; Accession: PQ0012
A; Molecule type: protein
A; Molecule type: protein
A; Molecule type: protein
A; Residues: 1-8 <FAN>
C; Superfamily: gastrin
C; Superfamily: gastrin
C; Keywords: amidated carboxyl end; hormone; neuropeptide; sulfoprotein
E; 2/Binding site: sulfate (Tyr) (covalent) #status predicted
E; 8/Modified site: amidated carboxyl end (Phe) #status predicted
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T-cell receptor gamma chain (1t.22) - mouse (fragment)
C:Species: Mus musculus (bouse mouse)
C:Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 07-May-1999
C:Accession: A41946
                                                                                                                                                                                                                                C;Species: Dasyurus viverrinus (southeastern quol1) C;Date: 07-Sep-1990 #sequence_revision 07-Sep-1990 C;Accession: PQ0012
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C; Superfamily: proenkephalin
C; Keywords: neuropeptide; op.
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C; Keywords: T-cell receptor
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A; Residues: 1-6 <WHE>
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RESULT
D61512
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A;Title: Glycopeptides from variant surface
A;Reference number: A61512; MUID:81172836
Mol. Biochem. Parasitol. 2, A; Title: Glycopeptides from A; Reference number: A61512;
                                                                              variant surface glycoprotein MITat 1.6 -
C;Species: Trypanosoma brucei
C;Date: 28-Oct-1994 #sequence_revision 28
                                                                                                                                                                                                                                                                                                                                          A; Molecule type: protein A; Residues: 1-8 <HOL> C; Keywords: glycoprotein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           variant surface glycoprotein MITat 1.4 - Trypanosoma brucei (fragment)
C; Species: Trypanosoma brucei
C; Date: 28-Oct-1994 #sequence_revision 28-Oct-1994 #text_change 07-May-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C;Superfamily: gastrin C;Keywords: amidated carboxyl end; hormone; neuropeptide; sulfoprotein F;2/Binding site: sulfate (Tyr) (covalent) #status predicted
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C;Species: Macropus eugenii (tammar wallaby)
C;Date: 30-Oct-1992 #sequence_revision 30-Oct-1992 #text_change
C;Accession: A43001; PQ0012
R;Fan, Z.W; Eng, J.; Shaw, G.; Yalow, R.S.
Peptides 9, 429-431, 1988
                                             C;Accession: D61512
R;Holder, A.A.; Cross, G.A.M.
                                                                                                                                                                                                                                                                                                                                                                                             A; Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                            A; Reference number: A; Accession: C61512
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 135-150, 1981
variant surface
MUID:81172836
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Pred. No. 2.2e
0; Mismatches
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0; Mismatches 1;
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                                                                                 28-oct-1994
                                                                                                               Trypanosoma brucei (fragment)
                glycoproteins of Trypanosoma
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RESULT 20
A42057
A42057
flbroblast growth factor receptor 1, secreted - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Accession: A42057
R;Werner, S.; Duan, D.S.R.; de Vries, C.; Peters, K.G.; Johnson, D.E.; Williams, Mol. Cell. Biol. 12, 82-88, 1992
A;Title: Differential splicing in the extracellular region of fibroblast growth A;Accession: A42057; MUID:92107200
A;Accession: A42057; MUID:92107200
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A;Status: preliminary
A;Molecule type: protein
A;Residnes: 1-8 <HOL>
C;Keywords: 91ycoprotein
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A;Molecule type: DNA
A;Residues: 1-8 - CHER>
A;Cross-references: GB:M80363
C;Keywords: growth factor receptor
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R;Cintra, A.C.O.; Vicira, C.A.; Giglio, J.R.
J. Protein Chem. 9, 221-227, 1990
A;Title: Primary structure and biological activity
A;Reference number: A37196; MUID:90351557
A;Accession: F37196
                                                                                                                                                                                                                                                                                                                                                               bradykinin-potentiating peptide 6 - island jararaca
C;Species: Bothrops insularis (island jararaca)
C;Date: 14-Feb-1992 #sequence_revision 01-Dec-1992 #text_change 05-Aug-1994
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F37196
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RESULT 22
A37832
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A; Residues: 1-3 <CIN>
C; Koywords: pyroglutamic acid
F; 1/Modified site: pyrrolidone carboxylic acid
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Best Local Similarity
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Best Local Similarity 50.0
Matches 2; Conservative
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Best Local :
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    Pseudomonas
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C;Species: Pseudomonas sp.
C;Date: 14-Jun-1991 #sequence_revision 14-Jun-1991 #text_change 23-Jun-1993
C;Date: 14-Jun-1991 #sequence_revision 14-Jun-1991 #text_change 23-Jun-1993
C;Accession: A37832
R;Powlowski, J.; Shingler, V.
J. Bacteriol. 172, 6834-6840, 1990
A;Title: In vitro analysis of polypeptide requirements of multicomponent ph.
A;Reference number: A37832; MUID:91072231
A;Accession: A37832
A;Stetus: preliminary
A;Stetus: preliminary
A;Residues: 1-4 <POW>
C;Keywords: oxidoreductase
                                                                                                                                                                                                                R:Yamada, M.; Wasserman, R.; Reichard, B.A.; S
J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific
A;Reference number: PT0222; MUID:91108337
A;Accession: PT0240
                                                                                                                                                                                                                                                                                                                  Ig heavy chain CRD3 region (clone 2-100B) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
C;Accession: PT0240
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Best Local Similarity
Thes 1; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                R;Kuroki, Y.; Kanda, T.; Kubota, I.; Fujisawa, Y.; Ikeda, T. Biochen. Biophys. Res. Commun. 167, 273-279, 1990 A;Title: A molluscan neuropeptide related to the crustacean A;Reference number: A34626; MUID:90179762
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RPCH-related neuropeptide - ferruginous spindle (;Species: Fusinus ferrugineus (ferruginous spindle) (;Species: Fusinus ferrugineus (ferruginous spindle) (;Date: 06-Jul-1990 #sequence_revision 06-Jul-1990 #text_change 31-Dec-1993 (;Accession: A34626
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                                                                                                                                       A; Experimental source: B ly: C; Keywords: heterotetramer;
                                                                                                                                                                              A; Molecule type: DNA
A; Residues: 1-4 < YAM>
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Matches 2
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                                       Score 11; DB
Pred. No. 2.2e
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RESULT 25
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T-cell receptor beta 2 chain D region, Dbeta2 - rabbit
C:Species: Oryctolagus cuniculus (domestic rabbit)
C:Date: 02-May-1994 #sequence_revision 18-Nov-1994 #text_change 05-Nov-1999
C:Accession: B53284
R:Harindranath, N.; Alexander, C.B.; Mage, R.G.
Mol. Immunol. 28, 881-888, 1991
A;Title: Evolutionarily conserved organization and sequences of germline diversity and j.Reference number: A53284; MUID:91342695
A;Accession: B53284
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-4 - CHARD
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A;Residues: 1-4 - CHARD
A;Residues: GB:S60737; NID:g233916; PIDN:AAB19518.1; PID:g233918
A;Note: sequence extracted from NCBI backbone (NCBIN:60737, NCBIP:60738)
C;Keywords: T-cell receptor
Search completed: January 14, 2002, 07:44:21 Job time: 407 sec
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P42984;
01-NOV-1995 (Rel. 32, C
01-NOV-1995 (Rel. 32, I
01-NOV-1995 (Rel. 32, I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TISSUE-Ganglion;

MEDLINE=93265912; PubMed=8495720;

MEDLINE=93265912; PubMed=8495720;

Minakata H., Ikeda T., Muneoka Y., Kobayashi M., Nomoto K.;

Minakata H., Ikeda T., Muneoka Y., Kobayashi M., Nomoto K.;

"Wamide-1, -2 and -3: novel neuromodulatory peptides isolated from ganglia of the African giant snail, Achatina fulica.";

FEBS Lett. 323:104-108(1993).

-i- FUNCTION: EXHIBITS MODULATORY EFFECTS ON THE PERIPHERAL NERVOUS SYSTEM. INHIBITS ACTIVITY ON A CENTRAL NEURON.

PIR; S33245; S33245.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WWA1_ACHFU STANDARD; PKT;
p35919;
01-JUN-1994 (Rel. 29, Created)
01-JUN-1994 (Rel. 29, Last sequence up
01-CCT_1994 (Rel. 30, Last annotation
                                                                                             Leptinotarsa decemlineata (Colorado potato beetle).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insec Eukaryota; Neoptera; Endopterygota; Coleoptera; Polyphaga; Cucujiformia; Phytophaga; Chrysomeloidea; Chrysomelidae; Chrysomelinae; Leptinotarsa.
NCBI_TaxID=7539;
                                                                                                                                                                                                                                               01-NOV-1995 (Rel. 32, Last sequence update)
01-NOV-1995 (Rel. 32, Last annotation update)
MYOTROPIC NEUROPEPTIDE 1 (LED-MNP-I)
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MOD_RES 7 7
SEQUENCE 7 AA; 993 MW
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Eukaryota; Metazoa; Mollusca; Gastropoda;
Achatinacea; Achatinidae; Achatina.
  TISSUE=Head;
MEDLIWE=95380343;
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PIR: S33244: S33244.
                                                 SEQUENCE, AND SYNTHESIS
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Pred. No.
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RESULT 6
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P30369;

01-APR-1993 (Rel.

01-APR-1993 (Rel.

01-OCT-1996 (Rel.
                                                                                                                                                                                             MOD_RES
SEQUENCE
                                                                                                                                                                                                                                                                                                                   "Cholecystokinin octapeptide purified from marsupials.";
Peptides 9:429-431(1988).
                                                                                                                                                                                                                                                                                                                                                                                                                    Macropus eugenii (Tammar wallaby), and Dasyurus viverrinus (Southeastern quoll). Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Metatheria; Diprotodontia; Macropodidae; Macropus. NCBI_TaxID=9315, 9279;
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PIR; PQ0012; PQ0012.
InterPro; IPR001651; Gastrin.
InterPro; PS00259; GASTRIN; 1.
PROSITE; PS00259; GASTRIN; 1.
PROSITE: PS00259; GASTRIN; 1.
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PROSITE: PS00259; GASTRIN; 1.
PROSITE: PS00259; GASTRIN; 1.
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Peptides 16:365-374(1995).
                                                                                                                                                                                                                                                                                                                                                               MEDLINE=88234141; PubMed=3375140; Fan Z.W., Eng J., Shaw G., Yalow
                                                                                                                                                                                                                                                                                                                                                                                       TISSUE-Brain;
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SEQUENCE 7 AA; 705 MW
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Pred. No.
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TISSUE-Fibroblast;

WEDLINE-95009907; PubMed-7523108;

Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkirk "Separation and sequencing of familiar and novel murine prousing preparative two-dimensional gel electrophoresis.";
Electrophoresis 15:735-745(1994).
-I- MISCELLANEOUS: ON THE 2D-GEL THE DETERMINED PI OF THIS DROTEIN IS: 6.6, ITS MW IS: 19 KDA.
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Cintra A.C.O., Vieira C.A., Giglio J.R.;
Cintra Structure and biological activity of bradykinin pote "Primary structure and biological activity of bradykinin pote peptides from Bothrops Insularis snake venom.";
J. Protein Chem. 9:221-227(1990).
J. Proteino: This Peptide Both INHIBITS THE ACTIVITY OF THE ANGIOTENSIN-CONVERTING ENZYME AND ENHANCES THE ACTION OF BRADYKININ BY INHIBITING THE KINASES THAT INACTIVATE IT. IT ACTS AS AN INDIRECT HYPOTENSIVE AGENT.
PIR; G37196; G37196.
Hypotensive agent; Venom.
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Viperidae; Crotalinae; Bothrops.
NCBI_TaxID=8723;
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BRADYKININ-POTENTIATING PEPTIDE S5,2 (5A) (ANGIOTENSIN-CONVERTING
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
NCBI_TaxID-10090;
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01-NOV-1995 (Rel. 01-NOV-1995 (Rel. 15-JUL-1998 (Rel. LOCUSTAKININ I.
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MOD_RES
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SEQUENCE.
TISSUE-Corpora cardiaca;
MEDLINE-92262851; PubMed-1585017;
MEDLINE-92262851; Propost P.,
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SEQUENCE, AND SYNTHESIS.

MEDLINE-81213980; PubMed-6263778;

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Medline-81213980; PubMed-6263778;

Medline-81213980; PubMed-6263778;

Medline-81213980; Activity from porcine hypothalamus.";

Horm. Metab. Res. 13:228-232(1981).
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insect
Pterygota; Neoptera; Orthopteroidea; Orthoptera; Caelifera;
Acridomorpha; Acridoidea; Acrididae; Locusta.
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SEQUENCE
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-!- FUNCTION: MYOTROPIC PEPTIDE. MAY BE IMPORTANT IN THE OF ION TRANSPORT AND INHIBITION OF DIURETIC ACTIVITY
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Mammalia; Eutheria;
NCBI_TaxID=9823;
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PIR; A61068; A61068.
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NCBI_TaxID=7004;
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PIR; A01417; NYPG7
SEQUENCE 7 AA;
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32, Last sequence up
36, Last annotation
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Sus.
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Matches 1
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01-NOV-1990 (Rel. 16, Last sequence update)
01-NOV-1990 (Rel. 16, Last sequence update)
01-NOV-1990 (Rel. 16, Last annotation update)
01-NOV-1990 (Rel. 16, Last annotation update)
ANGIOTENSIN-CONVERTING ENZYME INHIBITOR.
Thunnus albacares (Yellowfin tuna) (Neothunnus macropterus).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Scombroidei;
Scombridae; Thunnus.
                                                                                                                                                             SPECIES-R.microptera; TISSUE-Corpora cardiaca; MEDLINE-89145002; PubMed-3226948; Gaede G., Hilbich C., Beyreuther K., Rinehart K.L. Jr.; Gaede G., Hilbich C., Beyreuther K., Rinehart K.L. Jr.; "Sequence analyses of two neuropeptides of the AKH/RPCH-family from the lubber grasshopper, Romalea microptera."; Peptides 9:681-688(1988).

-1- FUNCTION: THIS HORMONE, RELEASED FROM CELLS IN THE CORPORA
                                                                                                                                                                                                                                                                                                                                "Primary sequence analysis by fast atom bombardment mass spectrometry of a peptide with adipokinetic activity from the corpora cardiaca of the cricket Gryllus bimaculatus.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gryllus bimaculatus (Two-spotted cricket), and Romalea microptera (Lubber grasshopper). Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta; Pterygota; Neoptera; Orthopteroidea; Orthoptera; Ensifera; Gryllidae; Gryllinae; Gryllus. NCBI_TaxID=6999, 7007;
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Biochem. Biophys. Res. Commun. 155:332-337(1988).
PIR; A31570; A31570.
SEQUENCE 8 AA; 953 MW; 6AA863733051F1B7 CRC64
                                                                            ŖΙR;
                                                                                                                                                                                                                                                                                  SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE
        Neuropeptide;
MOD_RES
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Ol-FEB-1994 (Rel. 28, Last sequence update)
Ol-FEB-1994 (Rel. 28, Last annotation update)
ADIPOKINETIC HORMONE G (AKH-G) (RO II).
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01-JAN-1990
                                        PROSITE; PS00256; AKH; 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TISSUE=Muscle;
MEDLINE=88326322; PubMed=3415688;
                                                        PIR; A28004; A28004.
InterPro; IPR002047; AKH.
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                                                                                     FUNCTION: THIS HORMONE, RELEASED FROM CELLS IN THE CORPORA CARDIACA AFTER THE BEGINNING OF FLIGHT, CAUSES RELEASE OF DIGLYCERIDES FROM THE FAT BODY AND THEN STIMULATES THE FLIGHT MUSCLES TO USE THESE DIGLYCERIDES AS AN ENERGY SOURCE.

SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
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Similarity 100.0%;
1; Conservative (
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Amidation; Flight.

Amidation; Flight.

PYRROLIDONE CARBOXYLIC ACID
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AKH_MELML

ID AKH_MELML STANDARD; PRT; 8
AC P25423;
DT 01-MAY-1992 (Rel. 22, Created)
DT 01-FEB-1994 (Rel. 28, Last sequence upda
DT 01-FEB-1994 (Rel. 28, Last annotation up
DE ADIPOKINETIC HORMONE (AKH).

OS Melolontha melolontha (Cockchafer), and
OS Pachnoda marginata (Flower beetle), and
OS Pachnoda marginata (Flower beetle).

CC Eukaryota; Metazoa; Arthropoda; Tracheat
OC Pterygota; Neoptera; Endopterygota; Cole
OC Scarabaeiformia; Scarabaeidae; Melolonth
OX NCBI_TaxID-7061, 7087, 7058;
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OX NCHI_
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                           Melolontha melolontha (Cockchafer), Geotrupes stercorosus (Dor beetle), and Pachnoda marginata (Flower beetle). Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Pterygota; Neoptera; Endopterygota; Coleoptera; Polyps Scarabaeiformia; Scarabaeidae; Melolonthinae; Melolon NCBI_TaxID=7061, 7087, 7058;
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01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last annotation update)
ADIFOKINETIC HORMONE (AKH).
Libellula auripennis (Skimmer dragonfly).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insect Pterygota; Palaeoptera; Odonata; Anisoptera; Libellulidae; NCBL_TaxID-6966;
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SEQUENCE
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-!- FUNCTION: THIS HORMONE, RELEASED FROM CELLS IN THE CORPORA CARDIACA AFTER THE BEGINNING OF FILIGHT, CAUSES RELEASE OF DIGLYCERIDES FROM THE FAT BODY AND THEN STIMULATES THE FLIC MUSCLES TO USE THESE DIGLYCERIDES AS AN ENERGY SOURCE.
-!- SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
PIR; $10596. ....
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01-MAY-1992
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MOD_RES
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Pred. No.
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Pred. No.
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le+05;
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MOD_RES
SEQUENCE 8 A
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PROSITE; F
                                                                                                                                                                                                                                                                                                                                   AKH_TABAT
P14595;
                                                                               MEDLINE-90046758; PubMcd: 2813385;
Jaffo H., Raina A.K., Riley C.T., Fraser B.A., Nachman R.J.,
Vogel V.W., Zhang Y.-S., Hayes D.K.;
Primary structure of two neuropeptide hormones with adipokinetic and
hypotrehalosemic activity isolated from the corpora cardiaca of horse
files (Diptora).";
Proc. Natl. Acad. Sci. U.S.A. 86:8161-8164(1989).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            hormone/red-pigment-concentrating hormone sequenced from two beetle species."; Blochem. J. 275:671-677(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "A unique charged tyrosine-containing
                   Tabanidae; Tabanus.
NCBI_TaxID-7207;
                                                                                                                                                                                                                                Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Taba
                                                                                                                                                                                                                                                                                 01-JAN-1990 (Rel. 13,
01-FEB-1994 (Rel. 28,
01-FEB-1994 (Rel. 28,
ADIPOKINETIC HORMONE (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Primary structures of neuropeptides isolated from the corpora cardiaca of various cetonid beetle species determined by pulsed-liquid phase sequencing and tandem fast atom bombardment mass spectrometry.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SPECIES-P.marginata; TISSUE-Corpora cardiaca; MEDLINE-92265187; PubMede:1586453; Gaede G., Lopata A., Keliner R., Rinehart K.L. Jr.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SPECIES-M.melolontha,
                                                                                                                                                                                    SEQUENCE
                                                                                                                                                                                                                                                        Tabanus atratus (Horse fly).
                                                                                                                                                                                                                                                                     (DCC I).
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                                                                                                                                                                      TISSUE-Corpora cardiaca;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PUNCTION: THIS HORMONE, RELEASED FROM CELLS IN THE CORPORA CARDIACA AFTER THE BEGINNING OF FLIGHT, CAUSES RELEASE OF DIGLYCERIDES FROM THE FAT BODY AND THEN STIMULATES THE FLIGHT MUSCLES TO USE THESE DIGLYCERIDES AS AN ENERGY SOURCE.

SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.

S15422; S15422.

S21663; S21663.
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            A33995; A33995
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1; Conser
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1022
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, Last annotation update)
(AKH) (DIPTERAN CORPORA CARDIACA FACTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30.6%;
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                                                                                                                                                                                                                                                                                                                     Created)
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867AB775AB544736
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1e+05;
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RESULT 15
AL16_CARMA
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Best Local S
Matches 2
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Best Local Similarity
                                                                                                                                          GLUR_HUMAN
P02729;
21-JUL-1986
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PROSITE; PS002
Neuropeptide;
MOD_RES
MOD_RES
SEQUENCE 8 A
                                                                                                                                                                                                                                                                                                       "Isolation and identification of multiple neuropeptides allatostatin superfamily in the shore crab Carcinus maen Eur. J. Biochem. 250:727-734(1997).
-!- FUNCTION: MAY ACT AS A NEUROTARNSMITTER OR NEUROMODU-!- SIMILARITY: BELONGS TO THE ALLATOSTATIN FAMILY.
Neuropeptide; Amidation; Multigene family.
MOD_RES
8
AMIDATION
SEQUENCE 8 AA; 813 MW; 7C286B45AB476878 CRC64:
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30-MAY-2000 (
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P81819;
                                                                                                                                                                                                                                                                                                                                                                                                 TISSUE-Cerebral ganglion, and Thoracic MEDLINE-98121193; PubMed-9461295; Duve H., Johnsen A.H., Maestro J.-L.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Arthropoda;
Eumalacostraca; Eucarida; Decapo
  glycopeptide
Biochem. J.
                   MEDLINE=72062338; PubMed=5126885;
Lote C.J., Weiss J.B.;
"Identification in urine of a low-molecular-weight highly
                                                                              Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eubrachyura; Portunoidea;
NCBI_TaxID=6759;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Carcinus maenas (Common shore crab)
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                                                                                                              URINE GLYCOPEPTIDE
                                                                                                                       21-JUL-1986
20-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                        Thorpe A.;
                                                 SEQUENCE
                                                                     NCBI_TaxID=9606;
                                                                                                  Homo sapiens
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(Rel. 39, Last of
(Rel. 39, Last of
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  e containing cysteinyl-galactose 123:25P-25P(1971).
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                                                                                (Human).
(Haman).
tazoa; Chordata;
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100.0%;
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Decapoda; Pleocyemata;
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86786771A9D1A736 CRC64;
                                                                                                                       sequence update) annotation update)
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                                                                               Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
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1e+05;
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1e+05;
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Best Local
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01-FEB-1994 (Rel. 28, Last annotation update)
HYPERTREHALOSAEMIC FACTOR I (NEUROPEPTIDE M.I) (PERIPLANETIN CC-I)
(PEA-CAH-I) (LED-CC-I) (HYPERTREHALOSAEMIC NEUROPEPTIDE I).
Periplaneta americana (American cockroach),
Leptinotarsa decemlineata (Colorado potato beetle), and
Blatta orientalis (Oriental cockroach).
Buktaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blattoidea; Blattidae; Periplaneta.
NCBI_TaxID-6978, 7539, 6976;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CARBOHYD
SEQUENCE
                                                                                                                                                                                                                                                          miller C.A., Schooley D.A.;
"Isolation and primary structure of two peptides with cardioacceleratory and hyperglycemic activity from the cardiaca of Periplaneta americana.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -!- FUNCTION: THE IDENTITY OF THE GLYCOPROTEIN FROM WHICH THIS PEPTIDE IS DERIVED IS UNKNOWN. NO PHYSIOLOGICAL FUNCTION HAS BEEN ATTRIBUTED. AN ERYTHROCYTE MEMBRANE GLYCOPEPTIDE HAVING A SIMILAR STRUCTURE HAS ALSO BEEN FOUND.
PIR; A03188; XGHUEU.
                                     Gaede G., Rinehart K.L. Jr.;
"Primary structures of hypertrehalosaemic neuropeptides isolated from the corpora cardiaca of the cockroaches Leucophaea maderae, from the corpora cardiaca of the cockroaches and Blatta orientalis
                                                                                                                                                                     "The
                                                                                                                                                                                           SPECIES=L.decemlineata;
MEDLINE=90160053; PubMed
                                                                                                                                                                                                                                                                                                                                                                         "Structures of two cockroach neuropeptides assigned bombardment mass spectrometry."; Biochem. Biophys. Res. Commun. 124:350-358(1984).
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MEDLINE=85046530; PubMed=654
Witten J.L. Schaffer M.H.,
Rinehart K.L. Jr.;
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01-FEB-1994 (Rel. 28,
01-FEB-1994 (Rel. 28,
              atom
                           and
                                                                                       SPECIES=B.orientalis; TISSUE=Corpora
MEDLINE=90253659; PubMed=2340112;
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Scarborough R.M., Jamieson G.C.,
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                          of the stick insect Extatosoma
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bombardment mass spectrometry.";
.'Chem. Hoppe-Seyler 371:345-354(1990)
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ffer M.H., O'Shea
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PubMed=2576128;
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SPECIES-P. americana;
SPECIES-85046530; PubMed=6548628;
MEDLINE-85046530; PubMed=6548628;
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01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last sequence update)
HYPERTREHALOSAEMIC FACTOR II (NEUROPEPTIDE M-II) (PERIPLANETIN CC-2)
(PEA-CAH-II) (LED-CC-II) (HYPERTREHALOSAEMIC NEUROPEPTIDE II).
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SPECIES=B.orientalis; TISSUE=Corpora
MEDLINE=90253659; PubMed=2340112;
Gaede G., Rinehart K.L. Jr.;
                                                                                                             SPECIES=L.decemlineata;
MEDLINE=90160053; PubMe
                                                                                                                                                               "Isolation and primary structure of two peptides with cardioacceleratory and hyperglycemic activity from the cardiaca of Periplaneta americana.";
proc. Natl. Acad. Sci. U.S.A. 81:5575-5579(1984).
                                                                                                                                                                                                              SPECIES=P americana;
MEDLINE=84298179; PubMed=6591205;
Scarborough R.M., Jamieson G.C.,
Miller C.A., Schooley D.A.;
                                                                                                                                                                                                                                                                                                                            Witten J.L., Schaffer M.H., Rinehart K.L. Jr.;
                                                                                                                                                                                                                                                                                                                                                                                                     Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria; Blattoidea; Blattidae; Periplaneta. NCBI_TaxID=6978, 7539, 6976;
                                                                             beetle and
                                                                                                  Gaede G., Kellner R.;
                                                                                                                                        SEQUENCE.
                                                                                                                                                                                                                                                                  SEQUENCE
                                                                                                                                                                                                                                                                                         bombardment mass spectrometry.";
Biochem. Biophys. Res. Commun. 124:350-358(1984).
                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Leptinotarsa decemlineata (Colorado potato beetle), Blatta orientalis (Oriental cockroach).
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13-AUG-1987
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InterPro; IPR002047;
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-!- SIMILARITY: BELONGS TO T
PIR; A43976; A43976.
PIR; B43976; B43976.
InterPro; IPR002047; AKH.
PROSITE; PS00256; AKH; 1.
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Blol. Chem. Hoppe-Seyler 37:345-554(1990).

Blol. Chem. Hoppe-Seyler 37:345-554(1990).

FUNCTION: HYPERTREHALOSAEMIC FACTORS ARE NEUROPEPTIDES THAT ELEVATE THE LEVEL OF TREHALOSE IN THE HEMOLYMPH (TREHALOSE THE MAJOR CARBOHYORATE IN THE HEMOLYMPH OF INSECTS).

FIR. MAJOR CARBOHYORATE IN THE HEMOLYMPH OF INSECTS).

PIR: A05170; A05170.

PIR: B44960; B44960.

PIR: B44960; B44960.

PIR: B44980; B449823.
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P25419;
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MOD_RES
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SEQUENCE 8 A
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01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last annotation update)
HYPERTREHALOSAEMIC FACTOR (HOTH) (HYPERTREHALOSEMIC NEUROPEPTIDE).
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PROSITE; PS00256; AKH; 1.
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OS Leucop
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01-MAY-1991 (Rel. 18, Last sequence up
01-MAY-1991 (Rel. 18, Last annotation
LEUCOKININ I (L-I).
Leucophaea maanar
                                                                                                                                                                                                      Leucophaea maderae (Madeira cockroach).
Bukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blaberoidea; Blaberidae; Leucophaea.
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P21141;
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"Isolation, primary structure and synthesis of two neuropeptides from Leucophaea maderae: members of a new family of Cephalomyotropins.";
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Pterygota; Neoptera; Orthopteroidea;
Blaberoidea; Blaberidae; Leucophaea.
                                                                                                                         Neuropeptide; Amidation.
MOD_RES 8 8
SEQUENCE 8 AA; 852 MW
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01-MAY-1991 (Rel. 18,
01-MAY-1991 (Rel. 18,
LEUCOKININ II (L-II)
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-i- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACTILE
ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).

-i- SIMILARITY: TO THE OTHER LEUCOKININS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TISSUE-Head;
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Dictyoptera; Blattaria;
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P21142;
01-MAY-1991
  MOD_RES
                                                                                                                                                                               TISSUE-Head;
Holman G.M., Cook B.J., Nachman R.J.;
"Primary structure and synthesis of two additional from Leucophaea maderae: members of a new family of
                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-MAY-1991 (Rel. 18,
01-MAY-1991 (Rel. 18,
01-MAY-1991 (Rel. 18,
LEUCOKININ IV (L-IV).
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SEQUENCE
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NCBI_TaxID=6988;
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Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blaberoidea; Blaberidae; Leucophaea.
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P21143;
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01-MAY-1991 (Rel. 18, Last sequence up
01-MAY-1991 (Rel. 18, Last annotation
                                                                  Comp. Biochem. Physiol. 84C:271-276(1986).
11- FUNCTION: THIS CEPHALOMYOTROPIC PEPTILE ST
ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).
11- SIMILARITY: TO THE OTHER LEUCOKININS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TISSUE-Head;
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                                               Neuropeptide; Amidation.
                                                                                                                                                                                                                                                                                                                                                                                                         Leucophaea maderae (Madeira cockroach).
Eukaryota; Metazoa; Arthropoda; Trachea
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-i- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACTILE -ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).
-i- SIMILARITY: TO THE OTHER LEUCOKININS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Holman G.M., Cook B.J.,
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01-FEB-1991 (Rel. 1
01-FEB-1994 (Rel. 2
30-MAY-2000 (Rel. 3
PIR;
          "Isolation, primary structure, and synthesis of leucoki myotropic peptides of Leucophaea maderae.";
Comp. Biochem. Physiol. 88C:27-30(1987).
-i- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).
-i- SIMILARITY: TO THE OTHER LEUCOKININS, AND TO MANDUC HELLOTHIS ZEA ADIPOKINETIC HORMONE.
                                                                                                                                                                                                  Leucophaea maderae (Madeira cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blaberoidea; Blaberidae; Leucophaea.
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Holman G.M., Cook B.J., Nachman R.J.;
"Isolation, primary structure, and synthesis of leucokinins
myotropic peptides of Leucophaea maderae.";
Comp. Biochem. Physiol. 88C:27-30(1987).
-!- EUNCTION: THIS CEPHALOMYOTROPIC PETTIDE STIMULATES CONTR
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Holman G.M., Cook B.J., Nachman R
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Blaberoidea; Blaberidae;
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SQ SEQUENCE 8 AA; 935 MW; 9D6365B1E9D5A5A6 CRC64;

Query Match 30.6%; Score 11; DB 1; Length 8; Best Local Similarity 100.0%; Pred. No. 1e+05; Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Scarch completed: January 14, 2002, 07:52:04

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SEQUENCE 7 AA
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MEDILINE-81069885; PubMed-6254986;
Bonitz S.G., Coruzzi G., Thalenfeld B., Tzagoloff A., Macino (
"Assembly of the mitochondrial membrane system. Structure and nucleotide sequence of the gene coding for subunit 1 of yeast cytochrme oxidase.";
                                                                                                                                                                                                                                                             Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes; Saccharomycetales; Saccharomycetaceae; Saccharomyces. NCBI_TaxID=4932;
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Q95945;
Q1-FEB-1997 (TrEMBLrel. 02, Created)
Q1-FEB-1997 (TrEMBLrel. 02, Last sequence update)
Q1-NOV-1998 (TrEMBLrel. 08, Last annotation update)
INSIDE INTRON 5 (FRAGMENT).
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EMBL; V00694; CAA24066.1; -.
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01-MAY-2000 (TrEMBLrel. 13, Created)
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01-NOV-1996 (TrEMBLrel.
01-NOV-1996 (TrEMBLrel.
01-NOV-1998 (TrEMBLrel.
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Henderson T., Owens G.A., Danner D.B.,
McClung J.K.;
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MEDLINE=95331633; PubMed=7607556;
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
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39 MW; 954772CAA87B0B59 CRC64;
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Pred. No.
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Q9QVD3;
Q1-MAY-2000
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Q1-MAY-2000
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                                                                                                                                                                                                                                                        Kanematsu T., Takeya H., Watanabe Y., Ozaki S., Iwanaga S., Hirata M.; "Putative inositol 1,4,5-trisphosphate binding cytosol.", J. Biol. Chem. 267:6518-6525(1992).
                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa; Mammalia; Eutheria; NCBI_TaxID=10118;
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                  Amphibia;
                             Eukaryota;
                                      Litoria rubella (Desert tree frog).
                                                  ELECTRIN 1.
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                                                                                                                                                                                                                                                                                               MEDLINE=92202192; PubMed=1313009; Kanematsu T., Takeya H., Watanabe Y.,
                                                                                                                                                                                                                                                                                                                      SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                      Rattus sp.
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01-AUG-1998 (TrEMBLrel. 07, Last annotation update)
SKELETAL MUSCLE-SPECIFIC CALCIUM CHANNEL (FRAGMENT)
NCBI_TaxID=104895;
         Litoria
                                                                                                                                                                                                                                                                                                                                                                                 INOSITOL 1,4,5-TRISPHOSPHATE BINDING
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8 AA;
                   Batrachia;
                               Metazoa;
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(TrEMBLrel. 13, Last sequence update)
(TrEMBLrel. 13, Last annotation update)
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A; 1047 MW; D72415BB06C37041 CRC64;
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                             Chordata; Craniata; Vertebrata; Euteleostomi;
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50.0%;
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50.0%;
                   Anura;
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                   Neobatrachia;
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Pred. No. 4.7e
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Pred. No.
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Sciurognathi;
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                    Bufonoidea; Hylidae;
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SEQUENCE FROM N.A.
STRAINSCV. ESSEX; TISSUE ROOTS;
STRAINE 91367679; Pubmed 1891369;
MEDLINE 91367679; Pubmed 1891369;
Laux T., Goldberg R.B.;
"A plant DNA binding protein shares highly conserved sequence motifs with HMG-box proteins.";
with HMG-box proteins.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SIRAIN-CV. ESSEX; TISSUE-ROOTS;
Mahalingam R., Knap H.T.;
Submitted (FEB-1998) to the EMBL/GenBank/DDBJ databases.
EMBL; AF047050; AAC03556.1; -.
                                                                   P82065;
01-MAY-2000 (TrEMBLrel. 13,
01-MAY-2000 (TrEMBLrel. 13,
01-MAY-2000 (TrEMBLrel. 13,
TRYPTOPHYLLIN 5.1.
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Aust. J. Chem. 52:0-0(1999).
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TISSUE-SKIN SECRETION;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Viridiplantae: Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosid eurosids I; Fabalcs; Fabaceae; Papilionoideae; Glycine.
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  Litoria rubella (Desert tree frog).
Eukaryota; Metazoa; Chordata; Crani
Amphibia; Batrachia; Anura; Neobatr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE
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1; Conserv
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1; Conser
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Llarity 100.0%;
Conservative
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792 MW; 6683704772C9A000 CRC64;
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Last sequence up
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       neobatrachia;
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0; Mismatches
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Pred. No. 4.7
0; Mismatches
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Australian buzzing
skin peptides from
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4.7e+05;
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4.7e+05;
    Vertebrata; Euteleostomi;
a; Bufonoidea; Hylidae;
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RESULT
Q15888
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Q15888;
Q1-NOV-1996;
Q1-NOV-1996;
Q1-AUG-1998;
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085406;
01-NOV-1998
01-NOV-1998
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01-NOV-1998 (TremBLrel. 08, Last sequenc
01-NOV-1998 (TremBLrel. 08, Last annotat
HYPOTHETICAL 1.0 KDA PROTEIN (FRAGMENT).
COXIELLA DURNETLI.
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MOD_RES
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "The structure of new peptides from the Australin (Litoria rubella). The skin peptide profile as a p of evolutionary trends of amphibians.";

Aust. J. Chem. 49:955-963(1996).

1- FUNCTION: MAY ACT AS A NEUROMODULATOR OR NEURO
1- TISSUE SPECIFICITY: SECRETED BY THE SKIN DORSA
1- MASS SPECTROMETRY: MM-965; METHOD-FAB.
                                                                                                                                                                                                                       NON_TER
                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
STRAIN-NINE MILE PHASE I;
Willems H., Jaeger C., Baljer G.;
"Physical and genetic map of the obligate intracellular bacterium
                                                                                                                                                                                                                                                                                                                                      Bacteria; Proteobacteria;
Coxiella group; Coxiella.
NCBI_TaxID=777;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE=SKIN SECRETION;
Steinborner S.T., Wabnitz P.A., Waugh R.J., Bowle J.H., Gao C.,
Tyler M.J., Wallace J.C.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Litoria.
NCBI_TaxID=104895;
                                                                                                                                                                                                                                                      Submitted (MAY-1998) to the EMBL; AF064963; AAD09947.1;
                                                                                                                                                                                                                                                                           Coxiella burnetii.";
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 Eukaryota;
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                   (CLONE XP15H8A) (FRAGMENT).
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                            (TremBLrel. 01, TremBLrel. 07, TremBLrel. 07,
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 Metazoa;
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                                                                        PRELIMINARY;
                                                                                                                                                                     Conservative
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            (Human)
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100.0%; Pr
 Chordata;
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                                                                                                                                                                                                                                                                                                                                                            gamma subdivision; Legionellaceae group;
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 Craniata;
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4.7e+05;
  Vertebrata;
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  Euteleostomi;
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Best Local 9
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Best Local Similarity
Matches 1; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                 Q15898;
Q15898;
Q1-NOV-1996;
Q1-NOV-1996;
Q1-AUG-1998;
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Q15890;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Lee C.C., Yazdani A., Wehnert M., Bailey J., Couch L., X: Coolbaugh M.I., Chinault C.A., Baldini A., Lindsay E.A.,
    TISSUE-FLACENTA;
                                                                                                     Homo sapiens (Human
Eukaryota; Metazoa;
                                                                                                                                           01-NOV-1996 (TrEMBLrel. 01, 01-NOV-1996 (TrEMBLrel. 01, 01-AUG-1998 (TrEMBLrel. 07, (CLONE XP6A11B) (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-NOV-1996
01-AUG-1998
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                     SEQUENCE FROM N.A
                                                                                   Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TISSUE-PLACENTA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NCBI_TaxID=9606;
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NCBI_TaxID=9606;
                                                            NCEI_TaxID=9606;
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L32069; AAA73878.1; -.
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                                                                                   (Human).
(Chordata;
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1068 MW; 0315A37EAB5B0763 CRC64;
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07,
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b; Pred. No. 4.7
0; Mismatches
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Pred. No.
                                                                                   Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
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4.7e+05;
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RA
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RA Goldek A., Gong F., Gorrell J.H., Gu Z., Gubart W.M., Glasser K.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Gubart W.M., Glasser K.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Harris N.L., Karvey D., Heiman T.J., Wei M.-H., Ibegwam C.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., McPherson D.L.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., McPherson D.L.,
RA Melson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,
RA Spier E., Spradling A.C., Stapleton M., Skupski M.P., Smith T.,
RA Sylrskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
Wang Z.-Y., Wassarman D.A., Weinstock G.M., Weissenbach J.,
Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,
Wang X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,
RA Glbbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
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01-MAY-2000
01-MAY-2000
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Bluttoidea; Blattidae; Periplaneta.
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TISSUE-CORPORA CARDIACA;
MEDLINE-98010462; PubMed-9350979;
MEDLINE-98010462; PubMed-9350979;
Predel R., Kellner R., Rapus J., Penzlin H., Gaede G.;
"Isolation and structural elucidation of eight kinins
retrocerebral complex of the American cockroach, Perip
americana.";
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EMBL: AE003569: AAF50870.1; -:
FlyBasc: FBgn0040648; CG11666.

SEQUENCE 8 AA; 1062 MW; ED11B5B044004376
                                                                                                                                                                 Periplaneta americana (American cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Bl;
Blattoidea; Blattidae; Periplaneta.
NCBI_TaxID=6978;
                                   SEQUENCE, AND FUNCTION.
TISSUE CORPORA CARDIACA;
MEDLINE 98010462; PubMed 9350979;
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SEQUENCE, AND FUNCTION.
TISSUE-CORPORA CARDIACA;
MEDLINE-98010462; PubMed-9350979;
MEDLINE-980110462; PubMed-9350979;
MEDLINE-980110462; PubMed-9350979;
MEDLINE-98010462; PubMed-98010462; Pu
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P82687;
01-MAR-2001
01-MAR-2001
01-MAR-2001
Periplaneta americana (American cockroach).

Bukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;

Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;

Blattoidea; Blattidae; Periplaneta.

NCBI_TaxID=6978;
                                                                                                                                            01-MAR-2001 (TrEMBLrel. 16,
01-MAR-2001 (TrEMBLrel. 16,
01-MAR-2001 (TrEMBLrel. 16,
KININ-4 (PEA-K-4)
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Regul. Pept. 71:199-205(1997).
-i- FUNCTION: MEDIATES VISCERAL MUSCLE CONTRACTILE ACTIVITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Periplaneta americana (American cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Bl
Blattoidea; Blattidae; Periplaneta.
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MOD_RES 8 8
SEQUENCE 8 AA; 856 MW
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01-MAR-2001
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-!- SIMILARITY: BELONGS TO
                                                                                                                                                                                                                                                                                                     P82688
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DC6365B449D5A76A CRC64;
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Pred. No.
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cockroach, Periplaneta
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4.7e+05;
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002831;
01\u00e7JUL-1997
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MEDLINE=98010462; PubMed=9350979;
Predel R., Kellner R., Rapus J., Penzlin H., Gaede G.;
"Isolation and structural elucidation of eight kinins from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Periplaneta americana (American cockroach).

Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Eukaryota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
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01-MAR-2001 (TrEMBLrel. 16, Last seq
01-MAR-2001 (TrEMBLrel. 16, Last ann
KININ-5 (PEA-K-5).
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-!- FUNCTION: MEDIATES VISCERAL MUSCLE CONTRACTILE ACTIVITY (MYOTROPIC ACTIVITY).
-!- SIMILARITY: BELONGS TO THE KININ FAMILY.
                                                                                                                                                                                                                                                                                                                                           Neuropeptide; Amidation. MOD_RES 8 8
                                                                                                                                                                                                                                                                                                                                                                       Regul. Pept. 71:199-205(1997).
-i- FUNCTION: MEDIATES VISCERAL MUSCLE CONTRACTILE ACTIVITY (MYOTROPIC ACTIVITY).
-i- SIMILARITY: BELONGS TO THE KININ FAMILY.
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                                                                                                                                                                                                                                                                                                                             SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              retrocerebral complex of the American cockroach, Periplaneta
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MOD_RES
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TISSUE=CORPORA CARDIACA;
MEDLINE=98010462; PubMed=9350979;
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(TremBLrel. 04, Created)
(TremBLrel. 04, Last sequence update)
(TremBLrel. 10, Last annotation update)
TYPE III COLLAGEN PROTEIN (FRAGMENT).
                                                                                     PRELIMINARY;
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C76365B449CDC775 CRC64;
                                                                                                                                                                                                                                        Score 11; DB; Pred. No. 4.7
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Pred. No.
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P82929;
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01-MAR-2001 (TrEMBLTel. 16, L:
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MITOCHONDRIAL 28S RIBOSOMAL PI
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                                                               Bos taurus (Bovine).
Eukaryota; Metazoa; Chordata; Crania
Mammalia; Eutheria; Cetartiodactyla;
Bovidae; Bovinae; Bos.
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protein-6.";
Mol. Endocrinol.
TISSUE=LIVER;
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Eukaryota; Metazoa;
Mammalia; Eutheria;
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NCBI_TaxID=9986;
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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molecular cloning of
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jala U.M., Pelliniemi L.,
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rel. 13, Last sequence update)
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FACTOR-BINDING PROTEIN-6, IGFBP-6.
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Score 11; DB; Pred. No. 4.7
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Craniata;

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    SEQUENCE FROM N.A.
MEDLINE: 88223478; PubMed-2836084;
MCCTRCKen A., Uhlenbusch I., Gell.
"Structure of the cloned Locusta 1
                                                                                             Eukaryota; Mctazoa; Arthropoda; Tracheata; Hexapoda; Pterygota; Neoptera; Orthoptcroidea; Orthoptera; Cael Acridomorpha; Acridoidea; Acrididae; Locusta. NCBI_TaxID:7004;
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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Mammalla; Eutheria; Lagomorpha;
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I., Gellissen G.;
Locusta migratoria mitochondrial
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COI GENE PRODUCT (FRAGMENT).
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SEQUENCE 8 AA
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O9TD02;
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O1-MAY-2000 (TrEMBLrel. 13, Last annotation update)
CYTOCHROME C OXIDASE SUBUNIT I (FRAGMENT).
Terranatos dolichopterus.
SEQUENCE FROM N.A.
MEDILINE-89354669; PubMed-2766382;
Jacobs H.T., Asakawa S., Araki T., Miura
"Conserved tRNA gene cluster in starfish
Curr. Genet. 15:193-206(1989).
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EMBL; X05286; CAA28905.1; -.
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biogeographic perspective.";
broilution 53:1200-1216(1999).
EMBL; AF092421; AAF03041.1; -.
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                                         K., Smith M.J
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EMMILICANDATION.

KW MILOCHORTION.

FY MONLYER

SO SEQUENCE 8 AA: 1114 MW; FOCSD36415873656 CRC64;

COMETY Match

COMETY Match

1; CONSERVATIVE 100.08; Pred. No. 4.7er05;

MRICHAS 1; CONSERVATIVE 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 w 1

Db 6 w 6

Search completed: January 14, 2002, 07:53:45

Db time: 725 sec
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GenCore version 4.5 Copyright (c) 1993 - 2000 Compugen Ltd

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Perfect score:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

1 31 86.1 8 21 AAB06419 Claudin-1 cell adh 2 31 86.1 8 21 AAB06479 Claudin-2 cell adh 3 29 80.6 8 21 AAB06521 Claudin-2 cell adh 4 29 80.6 8 21 AAB06524 Claudin-2 cell adh 5 28 77.8 8 21 AAB06426 Claudin-1 cell adh 6 7 28 77.8 8 21 AAB06823 Claudin-1 cell adh 8 28 77.8 8 21 AAB06812 Claudin-7 cell adh 8 28 77.8 8 21 AAB06812 Claudin-7 cell adh 9 7 26 77.8 8 21 AAB06813 Claudin-7 cell adh 10 25 69.4 6 21 AAB06417 Claudin-7 cell adh 11 25 69.4 6 21 AAB06417 Claudin-1 cell adh
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21	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	24	24	24	24	24	24	24	24	24	24	24	24	25	25	25	25	25	25	25
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Sequence of novel	in-7 cyclic	laudin-7 cyclic	cyclic	11c	110	lic	110	11c	110	Claudin-7 cyclic c	Claudin-7 cell adh	<u>.</u> 1	Claudin-1 cell adh	Claudin-7 cyclic c		0	n-1 cel		in cell adh	laudin-6/9	laudin-6/9 cell	-2 cyclic	cyclic	Claudin-2 cyclic c	-2 cyclic	laudin-2 cyclic	laudin-2 cyclic	laudin-2 cell ad	Claudin-2 cyclic c	Claudin-2 cell adh	Claudin-1 cyclic c	lic	Claudin-1 cyclic c	110	laudin-1 cyclic	in-1 cycli	Claudin-1 cell adh

RESULT Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection. Claudin-1 cell adhesion recognition sequence SEQ ID NO: 34. 03-NOV-1998; 30-MAR-1999; AAB06419; Blaschuck OW, 03-NOV-1999; 11-MAY-2000. WO200026360-A1 Mammalia. 28-SEP-2000 (first entry) AAB06419 standard; peptide; (ADHE-) ADHEREX TECHNOLOGIES INC 98US-0185908. 99US-0282029. Symonds JM, 99WO-CA01029 Gour BJ; 8 Ą

ALIGNMENTS

WPI;

2000-365610/31

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KW Clau
KW CAR
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The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
                                                                                                                                                                                                                                    Claim 43;
                                                                                                                                                                                                                                                                                                                                                                                                           WPI;
                                                                                                                                                                                                                                                                                                                      Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
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30-MAR-1999;
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Pred. No. 4.3e+05;
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                               Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection.
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                                                                                                                                                                                       Claudin-1 cell adhesion recognition sequence SEQ ID NO:
                                                                                                                                                                                                                                                                   28-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                      AAB06426 standard;
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99US-0282029
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50.0%;
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Pred. No.
1; Mismatc
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Best Local S
Matches 4
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                                                                                                                                                                                        Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection; cyclic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin - \,
                                                                                                                                                                                                                                        Claudin-1 cyclic cell adhesion recognition sequence SEQ ID NO: 519
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          Blaschuck OW,
                                                         03-NOV-1998;
30-MAR-1999;
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30-MAR-1999;
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                                (ADHE-) ADHEREX TECHNOLOGIES INC
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99US-0282029.
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99US-0282029
          Symonds JM,
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50.0%;
           Gour BJ;
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1; Mismatches
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4.3e+05;
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2000-365610/31

Antibody modulation of claudin mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin -

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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-7 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant
                                                                                                                                       Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system
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30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 43; Page 97; 121pp; English.
                                                                                               Claim 76; Page 104; 121pp; English.
                                                                                                                                                                                                             Blaschuck OW,
                                                                                                                                                                                                                                                                                                            03-NOV-1999;
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                                                                                                                                                                                                                                                                                                                                                                                             Mammalia
                                                                                                                                                                                                                                                                                                                                                                                                                       graft rejection.
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                                                                                                                         across the
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                                                                                                                             skin -
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Pred. No. 4.3e+05;
1; Mismatches 3;
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                                                                                                                                                                                                                                                                                                                                                                                                                                     disease;
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Query Match Best Local

Similarity

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Best Local Similarity
Matches 4; Conserv
                                                                                The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-7 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
Sequence
                                                                                                                                                                                                                                                                                                                                                                    Claim 79; Page 105; 121pp; English.
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30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         graft rejection; cyclic.
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Pred. No. 4.3e
1; Mismatches
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4.3e+05;
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                                                                                                                                                                                                                                                                          Query Match
Best Local
                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                       The present sequence is a peptide which can be used in a claudin-mediated cell adhesion modulator. The claudin group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and this peptide can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, it can also be used to facilitate drug delivery to the desired target site.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claudin-7 modulating agent; cell adhesion recognition sequence: CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection.
                   28-SEP-2000
                                                      AAB06417;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the {\tt skin} -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        03-NOV-1998;
30-MAR-1999;
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                                                                                         AAB06417 standard;
                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 77; Page 104; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2000-365610/31.
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                                                                                                                                                                                                                                                            Similarity 50.4; Conservative
                                                                                                                                                                                                                                                                                                                                                      8 AA;
                 (first entry)
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99US-0282029.
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                                                                                       peptide;
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50.0%;
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                                                                                                                                                                                                                                                                            Score 28;
Pred. No.
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4.3e+05;
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RESULT 11
AAB06477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 4; Conserv
                                                                                                                                                                                      Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection; cyclic.
                                                                                                                                                                                                                                                                                      Claudin-1 cyclic cell adhesion recognition sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 39; Page 95; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              vasopermiability, for delivering drugs to tumors and the nervous system and across the skin -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11-MAY-2000.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claudin-1 cell adhesion recognition sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                    AAB06477 standard; peptide; 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
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30-MAR-1999;
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03-NOV-1999;
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| wkiysy
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                                                                                                                                                                                                                                                                                                                                      (first entry)
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99US-0282029
99WO-CA01029
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66.7%;
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Pred. No. 4.3e+05;
0; Mismatches 2;
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RESULT 12
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Best Local
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                                                                                                                                                                                                                                                                                                                                                            03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claudin-1 cell adhesion recognition sequence SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system
                               Claim 39;
                                                                                                        Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
                                                                                                                                                                                                                                                   Blaschuck OW,
                                                                                                                                                                                                                                                                                                                                                                                                                                           03-NOV-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claudin-1 modulating agent;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAB06418;
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                                                                                                                                                                                                                                                                                                      (ADHE-) ADHEREX TECHNOLOGIES INC
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| wkiysy 6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sequence; autoimmune
                                                                                                                                                                                             2000-365610/31
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                         Page 96; 121pp; English
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                                                                                  skin
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99US-0282029.
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66.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cell adhesion recognition sequence;
                                                                                                                                                                                                                                                Gour BJ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 25; DB 21;
Pred. No. 4.3e+05;
0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         inflammatory
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 6;
                                                                                                           and the nervous system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
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                                          The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
                                                                                                                                                                                             Claim 43; Page 97; 121pp; English.
                                                                                                                                                                                                                               and across the skin -
                                                                                                                                                                                                                                           Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
                                                                                                                                                                                                                                                                                                                                                                                              03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CAR sequence; autoimmune graft rejection; cyclic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claudin-1 modulating agent; cell adhesion recognition CAR sequence; autoimmune disease; inflammatory disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claudin-1 cyclic cell adhesion recognition sequence
                              conformation.
                                                                                                                                                                                                                                                                                              WPI; 2000-365610/31
                                                                                                                                                                                                                                                                                                                               Blaschuck OW,
                                                                                                                                                                                                                                                                                                                                                                                                                                              03-NOV-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          autoimmune disease;
                                                                                                                                                                                                                                                                                                                             Symonds JM,
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99US-0282029.
                                                                                                                                                                                                                                                                                                                                                                                                                                              99WO-CA01029
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66.7%;
                                                                                                                                                                                                                                                                                                                               Gour BJ;
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Pred. No.
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4.3e+05;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             sequence;
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Query Match Best Local Similarity

69.4**%**; 66.7**%**;

Score Pred.

NO;

; 'DB 21; . 4.3e+05;

Length

Sequence

AA;

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RESULT 1
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Best Local
                                                                                                                                                                                                                                                                                                                                                                        cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection; cyclic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claudin-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAB06434 standard; peptide;
                                                                   AAB06443 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 43; Page 96; 121pp; English.
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 28-SEP-2000
                                     AAB06443;
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30-MAR-1999;
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 (first entry)
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99US-0282029.
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Pred. No.
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4.3e+05;
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30-MAR-1999;
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The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
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                              Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 43; Page 96; 121pp; English.
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graft rejection; cyclic.
                                                                                                                               Claudin-1 cyclic cell adhesion recognition sequence SEQ ID NO:
                                                                                                                                                                                                                                                                                                                               AAB06452 standard; peptide;
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99US-0282029
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No. 4.3e+05;
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                                              antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys and across the skin -  \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}
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30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Antibody modulation of claudin-mediated cell adhesion vasopermiability, for delivering drugs to tumors and a and across the skin - \,
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Pred. No. 4.3e+05;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection; cyclic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin -  \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac
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Pred. No. 4.3e+05;
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Pred. No. 4.3e+05;
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4.3e+05;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin - \,
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                                                                                                                                                                                 Claudin-2 modulating agent; cell (CAR sequence; autoimmune disease;
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4.3e+05;
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30-MAR-1999;
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Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sysand agross the skin -
                                                                                                            WPI,
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RESULT :
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                                       The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-2 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
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                              conformation.
                                                                                                                                                                                  Claim 49;
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graft rejection;
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                                                                                                                                                                                                                                                                                                                                     (ADHE-) ADHEREX TECHNOLOGIES INC
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99US-0282029.
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50.0%;
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Pred. No. 4.3e
1; Mismatches
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4.3e+05;
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                                                                                                                                                                                                          The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-2 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
AAB06546 standard; peptide; 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claudin-2 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection; cyclic.
                                                                                                                                                                                                                                                                                                                            Claim 49; Page 98; 121pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               03-NOV-1998;
30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAB06537 standard; peptide; 8 AA
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99US-0282029
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50.0%;
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Pred. No. 4.3e+05;
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Pred. No. 4.3e+05;
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                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claudin-2 modulating agent; cell adhesion recognition so CAR sequence; autoimmune disease; inflammatory disease; graft rejection; cyclic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          Blaschuck OW, Symonds JM,
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99US-0282029
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Copyright (c) 1993 - 2000 Comp
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· seducince to, when	10	25	Sequence 5, Appl1	Sequence 1, Appli	Sequence 3, Appli	Sequence 2, Appli	Sequence 1, Appli	Sequence 8, Appli	Sequence 7, Appli	Sequence 1, Appli	Sequence 3, Appli	Sequence 7, Appli	Sequence 7, Appli	Sequence 3, Appli	Sequence 405, App	Sequence 4, Appli	Sequence 3, Appli	Sequence 2, Appli	Sequence 327, App	•	Sequence 325, App		Sequence 24, Appl

ALIGNMENTS

RESULT 1 US-08-687-219B-36 ; Sequence 36, Application ; Sequence 36, Application Thent No. 5985541 US-08-687-219B-36 Patent NO. JULIANION: GENERAL INFORMATION: GENERAL APPLICATION NUMBER: US/08/687,219B FILING DATE: 25-JUL-1996 PRIOR APPLICATION DATA: APPLICATION NUMBER: FR 95 09005 FILING DATE: 25-JUL-1995 ATTORNEY/AGENT INFORMATION: NAME: Berridge, William P. REGISTRATION NUMBER: 30,024 REFERENCE/DOCKET NUMBER: WPB 38526 TELECHMUNICATION INFORMATION: TELECHNOE: 703 836-6400 TELECHNOE: 703 836-6400 TELECHNOE: 703 836-2787 TELEFAX: 703 836-2787 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 8 amino acids MEDIUM TYPE: Floppy disk COMPUTER: PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, Version CURRENT APPLICATION DATA: ZIP: 22314 COMPUTER READABLE FORM: MEDIUM TYPE: Floppy MOLECULE TYPE: FRAGMENT TYPE: NUMBER OF SEQUENCES: 40 CORRESPONDENCE ADDRESS: ADDRESSEE: OLIFF & BERRIDGE, TELECUME: /U.TELEPHONE: /U.TELEPHONE: /U.TELEPHONE: 703 f STATE: V STREET: 700 South CITY: Alexandria TOPOLOGY: amino acid ٧A ב: ייטנודד & BERRIDGE, PLC 700 South Washington Street Lexandria USA unknown peptide N-terminal US/08687219B or C C-terminal or,

Query Match

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Score

21; DB

2

Length 8;

57.1%;

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                                                                              US-08-338-890B-3
                                                                                               RESULT
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US-08-338-890B-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/08/338
FILING DATE: NOV. 14, 1994
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: MAILNOSKI, Lynn
REGISTRATION NUMBER: 38,788
REFERENCE/DOCKET NUMBER: UPN-
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215)568-3439
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
                               Sequence 3, Application US/08338890B Patent No. 5700905 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 2, Application US/083388908 Patent No. 5700905
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Matches 4; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDDERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: Synthetic Somatostatin Mimics
NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
 APPLICANT:
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LOCATION:
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OTHER INFORMATION: /label=prot
OTHER INFORMATION: /notes-"an
OTHER INFORMATION: support can
                                                                                                                                                                                                                         Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: amino acid
TOPOLOGY: circular
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ZIP: 19103
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                                                                                                                                               1 WKXFPY
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Spanevello,
Nutt, Ruth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6 amino acids
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Hirschmann,
Spanevello,
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                                                                                                                                                                                                                                                                                                                                                                                                                   peptide
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66.7%;
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/notes-"an amine protecting group or a solid support can be present or absent on the primary amino group", Xaa=Orn
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Pred. No. 1.6e+05;
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0; Mismatches 3;
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RESULT 4
US-08-340-208B-2
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                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEFAX: (215)568-3439 INFORMATION FOR SEQ ID NO:
                                                                                                APPLICANT: Spanevello, Rolando
TITLE OF INVENTION: Somatostatin Mim
TITLE OF INVENTION: Methods Therefor
NUMBER OF SEQUENCES: 5
                                                                                CORRESPONDENCE ADDRESS:
                                                                                                                                                       APPLICANT:
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LOCATION: 1-3
OTHER INFORMATION: /label
OTHER INFORMATION: suppor
OTHER INFORMATION: suppor
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NAME: Malinoski, Lynn
REGISTRATION NUMBER: 38,
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SOFTWARE: WORDPERFECT SAVED AS ASCII
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Floppy disk
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ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz and No. 5700905ris
STREET: One Liberty Place, 46th Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: Modified-site LOCATION: 6, Xaa at Line 100 OTHER INFORMATION: /label=prc OTHER INFORMATION: /note= "a OTHER INFORMATION: present or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US/08/
FILING DATE: NOV. 14, 1994
CLASSIFICATION: 530
                               STREET: One Liberty CITY: Philadelphia
                                             ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz & No. 5965694ris STREET: One Liberty Place, 46th Floor
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COUNTRY:
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USA
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66.7%;
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/note= "a carboxyl protecting group can be
present or absent on the hydroxyl group", Xaa=Orn
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/note="an amine protecting group
support can be present or absent
amino group", Xaa: =Orn
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Pred. No. 1.6e+05;
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                                                                                                                                         And Synthetic
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the primary
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: (215)568-343 INFORMATION FOR SEQ ID NO:
                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: MS-DOS_WINDOWS
SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (215)568-3439
TELEFAX: (215)568-3439
TORMATION FOR SEO TO NO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATTORNEY/AGENT INFORMATION:
NAME: Malinoski, Lynn
REGISTRATION NUMBER: 38,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDDERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
ATTORNEY/AGENT INFORMATION:
NAME: MBLINOSKI, Lynn
REGISTRATION NUMBER: 38,788
REFERENCE/DOCKET NUMBER: UPI
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
LENGTH: 6 amino acids
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COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: Sometostatin Mimics And Synthetic TITLE OF INVENTION: Methods Therefor NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Hirschmann, APPLICANT: Spanevello,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                 STATE: F
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LOCATION: 2-3, Xaa at Line 72
OTHER INFORMATION: /label-protecting1
OTHER INFORMATION: /notes-"an amine protecting group or a solid
OTHER INFORMATION: support can be present or absent on the primary
OTHER INFORMATION: amino group", Xaa-Orn
                                                                                                                                                                                                                                                                                                                                       ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz & No. 5965694ris
STREET: One Liberty Place, 46th Floor
CITY: Philadelphia
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CLASSIFICATION:
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FILING DATE: NOV. 16, 1994
                                                                                                 CLASSIFICATION:
                                                                                                                  APPLICATION NUMBER: US/08/
FILING DATE: NOV. 16, 1994
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66.7%;
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                    UPN-2041
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Pred. No. 1.6e+05;
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Best Local
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TELEFAX: (215)568-3439
INFORMATION FOR SEQ ID NO: 3:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                TELEFAX: (215)568-343
                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:

ADDRESSEE: Woodcock, Washburn, Kurtz, Macklewicz and No.

STREET: One Liberty Place, 46th Floor
SEQUENCE CHARACTERISTICS:
LENGTH: 6 amino acids
                                                                REFERENCE/DOCKET NUMBER: UP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215)568-3100
                                                                                                                                           APPLICATION NUMBER: US 0
FILING DATE: NOV. 14, 19
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
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                                                                                                                                                                                                                                                           SOFTWARE: WORDPERFECT CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE: peptide
                                                                                                                                                                                              PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES:
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OTHER INFORMATION:
                                                                                                                                                                                                                                                                        COMPUTER: IBM PC COMPATIBLE

OPERATING SYSTEM: MS-DOS/WINDOWS

SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*)
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OTHER INFORMATION:
                                                                                                               NAME: Malinoski, Ly
REGISTRATION NUMBER:
                                                                                                                                                                                                                              APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                               CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                              ZIP: 19103
                                                                                                                                                                                                                                                                                                                                                                        COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                         STATE:
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                                                  (215)568-3439
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1-3
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                                                                                                                                                                                                                                                                                                                           Floppy disk
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                                                                                                                              Lynn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   55.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /label=protecting2
/note= "a carboxyl protecting group can be
present or absent on the hydroxyl group",
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               amino group", Xaa: =Orn
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/note-"an amine protecting group or a solid support can be present or absent on the primary
                                                                                                                                                                               US 08/338,890
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                                                                                                               38,788
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Pred. No. 1.6e
0; Mismatches
                                                                                                 UPN-2040
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1.6e+05;
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RESULT 7
US-08-997-263-3
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Best Local
                                                                                                                                                                                                                                           TELEPHONE: (215)568-3100
TELEPHONE: (215)568-3100
TELEFAX: (215)568-3439
INFORMATION FOR SEQ ID NO: 3:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                               LOCATION: 1-3
OTHER INFORMATION:
OTHER INFORMATION:
OTHER INFORMATION:
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APPLICATION NUMBER: U:
FILING DATE: NOV. 14,
                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                       FILING DATE: NOV. 14, 19
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION DATA: APPLICATION NUMBER: US
                                    FEATURE:
                                                                                                                                                 MOLECULE TYPE:
FEATURE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION: Synthetic Somatostatin Mimics NUMBER OF SEQUENCES: 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*)
                                                                                                                                                                             TYPE: amino acid TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                          REGISTRATION NUMBER: 38, REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                          CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY: U
ZIP: 19103
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OTHER INFORMATION:
OTHER INFORMATION:
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                                                                                                                                NAME/KEY:
                                                                                                                                                                                                             LENGTH:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: Modified-site
   LOCATION:
                  NAME/KEY:
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Modified-site 6, Xaa at Line
                                                                                                                                Modified-site
                                                                                                                                                                           linear
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                                                                                                                                                            peptide
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 Xaa at Line 100
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                                                                                                                                                                                                                                                                                                                                          Lynn
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /label=protecting1
/notes-"an amine protecting group or support can be present or absent on tamino group", Xaa=Orn
                                                             /note="an amine protecting group or a solid
support can be present or absent on the primary
                                              amino group", Xaa:
                                                                                                /label=protecting1
                                                                                                                                                                                                                                                                                                                                                                                         us 08/338,890
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Rolando
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Pred. No. 1.6e+05;
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the prima
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RESULT 9
US-08-67-219B-37
; Sequence 37, Application US/08687219B
; Patent No. 5985541
; GENERAL INFORMATION:
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; OTHER INFORMATION:
; OTHER INFORMATION:
US-08-997-263-3
                                                                                                                                                                                                                                                              US-08-687-219B-34
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US-08-687-219B-34
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Best Local Similarity
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                         INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: FR 95 09005 FILING DATE: 25-JUL-1995 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                   TELECOMMUNICATION INFORMATION: 703 836-6400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                            MOLECULE TYPE: FRAGMENT TYPE:
                                                                                                                                                                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
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CORRESPONDENCE ADDRESS:
ADDRESSEE: OLIFF & BERRIDGE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: JOLIVET-REYNAUD, COLETTE
TITLE OF INVENTION: PEPTIDE CAPABLE OF BEING RECOGNIZED BY
TITLE OF INVENTION: ANTIBODIES RECOGNIZING THE C33 ANTIGEN OF HEPATITIS C VIRUS
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                                                                                                                                                                                                                                                                                                             TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Berridge, William P. REGISTRATION NUMBER: 30,02
REFERENCE/DOCKET NUMBER: V
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDIUM TYPE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRÉET: 700 South
CITY: Alexandria
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N-terminal
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57.1%;
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/note= "a carboxyl protecting group can be
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Pred. No. 1.6e+05;
0; Mismatches 2
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Pred. No. 1.6e+05
                                                                                                                                                                                                                                                                              C-terminal
                                                                                                                                                                                  Mismatches
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; FRAGMENT TYPE: N-terminal or C-terminal or internal
US-08-687-2198-37
                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-08-338-890B-4
                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 4, Application US/08338890B Patent No. 5700905
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Best Local Similarity
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APPLICATION NUMBER: FR 95 09005
FILING DATE: 25-UUL-1995
ATTORNEY/AGENT INFORMATION:
NAME: Berridge, William P.
REGISTRATION NUMBER: 30,024
REFERENCE/DOCKET NUMBER: WPB 38526
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703 836-6400
                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
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NFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                APPLICANT: Hischmann, Ralph
APPLICANT: Spanevello, Rolando
APPLICANT: Spanevello, Rolando
APPLICANT: Nutt, Ruth
TITLE OF INVENTION: Synthetic Somatostatin Mimics
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSE: Woodcock, Washburn, Kurtz, Macklewicz and No. 5700905ris
STREET: One Liberty Place, 46th Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
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TITLE OF INVENTION:
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LENGTH: 8 amino acids
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ADDRESSEE: OLIFF & BERRIDGE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/01
FILING DATE: 25-JUL-1996
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FILING DATE: NOV. 14, 1994
                                                                                                                                                                        COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: amino acid
TOPOLOGY: unknown
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VENTION: PEPTIDE CAPABLE OF BEING RECOGNIZED BY
VENTION: ANTIBODIES RECOGNIZING THE C33 ANTIGEN OF HEPATITIS C VIRUS
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57.1%;
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                US/08/338,890B
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Pred. No. 1.6e+05;
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US-08-338-890B-5
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APPLICANT: Hirschm
APPLICANT: Spaneve
APPLICANT: Nutt, R
                                                                                                                                                                                                                                                                                                                                                                                  Sequence 5, Application US/08338890B Patent No. 5700905
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Best Local :
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                         MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/MINDOWS
SOFTWARE: WORDPERFECT SAVED AS ASCII
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REGISTRATION NUMBER: 38,788
REFERENCE/DOCKET NUMBER: UP
TELECOMMUNICATION INFORMATION:
             CLASSIFICATION: 530 ATTORNEY/AGENT INFORMATION:
                                                                                                                                     MEDIUM TYPE: Floppy
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATTORNEY/AGENT INFORMATION:
NAME: Malinoski, Lynn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LOCATION: 1,2,4
OTHER INFORMATION:
OTHER INFORMATION:
OTHER INFORMATION:
OTHER INFORMATION:
                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: Synthetic Somatostatin Mimics NUMBER OF SEQUENCES: 5
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                                           APPLICATION NUMBER: US/08/
FILING DATE: NOV. 14, 1994
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                                                                                                                                                                           ZIP: 19103
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                                                                                                                                                                                                                                  ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz and No. 5700905ris
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GY: linear
Malinoski,
                                                                                                                                                                                                        PA
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/note= "an amine protecting group or support can be present or absent on tamino group"
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/notes= "a hydroxyl protecting group can
present or absent on the hydroxyl group"
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                                                             US/08/338,890E
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Pred. No. 1.6e+05;
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                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDPERFECT SAVED AS AS
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STATE: PA
STATE: PA
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APPLICANT: Spanevello,
TITLE OF INVENTION: Son
TITLE OF INVENTION: Met
                            ATTORNEY/AGENT INFORMATION:
NAME: Malinoski, Lynn
REGISTRATION NUMBER: 38,
                                                                                                                            CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock, Washburn, Kurtz,
STREET: One Liberty Place, 46th Floor
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REFERENCE/DOCKET NUMBER: UP TELECOMMUNICATION INFORMATION:
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                                                                                            APPLICATION NUMBER: US/08/
FILING DATE: NOV. 16, 1994
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OTHER INFORMATION:
                                                                               CLASSIFICATION:
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OTHER INFORMATION:
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(215)568-3439
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/note= "a hydroxyl protecting group can be
present or absent on the hydroxyl group"
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/note= "a
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/note= "an amine protecting group or a support can be present or absent on the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                group"
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                                                                                                             US/08/340,208B
                             38,788
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                                                                                                                                                                                                                                                                                                                                                                                                 Ralph
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                UPN-2041
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Pred. No. 1.6e+05;
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                                                                                                                                          ASCII (DOS) TEXT(*.*)
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GENERAL INFORMATION:
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Best Local
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TELEFAX: (215)568-3439
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
INFORMATION FOR SEQ
                                                                                                                                                                                  ZIP: 19103
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Hirschmann, Ralph
APPLICANT: Spanevello, Rolando
TITLE OF INVENTION: Somatostati
TITLE OF INVENTION: Methods The
                TELECOMMUNICATION INFORMATION:
TELEPHONE: (215)568-3100
TELEFAX: (215)568-3439
                                                                                                    ATTORNEY/AGENT INFORMATION: NAME: Malinoski, Lynn
                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
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OTHER INFORMATION: /label OTHER INFORMATION: /note-
OTHER INFORMATION: suppor OTHER INFORMATION: amino
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OTHER INFORMATION:
OTHER INFORMATION:
OTHER INFORMATION:
                                                                NAME: Malinoski, Lynn
REGISTRATION NUMBER: 38,
REFERENCE/DOCKET NUMBER:
                                                                                                                                                    APPLICATION NUMBER: UFILING DATE: NOV. 16,
                                                                                                                                                                                                                                                                                                                            STATE:
                                                                                                                                                                                                                                                                                                                                         STREET: One Libert
                                                                                                                                      CLASSIFICATION:
                                                                                                                                                                                                                                                                                                         COUNTRY:
                                                                                                                                                                                                                                                                                                                                                           ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz & No. STREET: One Liberty Place, 46th Floor
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mes 3; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 WKVKFY
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50.0%;
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/notes= "a hydroxyl protecting group can present or absent on the hydroxyl group"
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/note= "an amine protecting group or a solid
support can be present or absent on the primary
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/note= "
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                                                                                                                                                      US/08/340,208E
5, 1994
                                                                                38,788
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Pred. No. 1.6e
0; Mismatches
                                                                    UPN-2041
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US-08-997-263-4
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Best Local Similarity
Matches 3; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: MS-DOS/MINDOWS
SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
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LENGTH: 6
                                                                                              CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08
APPLICATION NUMBER: US 19:
FILING DATE: NOV. 14, 19:
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES: 5

CORRESPONDENCE ADDRESS: 5

ADDRESSEE: Woodcock, Washburn, Kurtz, Macklewicz and No. STREET: One Liberty Place, 46th Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Hirschmann, Ralph
APPLICANT: Spanevello, Rolando
APPLICANT: Nutt. Ruth
TITLE OF INVENTION: Synthetic :
            REGISTRATION NUMBER: 38,788
REFERENCE/DOCKET NUMBER: UPN-2040
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215)568-3100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURE:
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OTHER INFORMATION:
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OTHER INFORMATION:
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OTHER INFORMATION:
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CITY: Philadelphia
STATE: PA
COUNTRY: USA
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LOCATION:
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OTHER INFORMATION:
OTHER INFORMATION:
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TOPOLOGY: circular
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                                                                            Malinoski, Lynn
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(215)568-3439
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50.0%;
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/noteo "a
group"
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/note: "a hydroxyl protecting group can be
present or absent on the hydroxyl group"
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Pred. No. 1.6e+05;
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OTHER INFORMATION:
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OTHER INFORMATION:
US-08-997-263-4
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US-08-997-263-5
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Best Local Similarity
Matches 3; Conserv
                                                                             CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/
APPLICATION NUMBER: US 08/
FILING DATE: NOV. 14, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Malinoski, Lynn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
REGISTRATION NUMBER: 38,788
REFERENCE/DOCKET NUMBER: UP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215)568-3100
TELEFAX: (215)568-3439
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ADDRESSEE: Woodcock,
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LOCATION: 1,2,4
OTHER INFORMATION: /label
OTHER INFORMATION: /note-
OTHER INFORMATION: suppor
OTHER INFORMATION: amino
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CITY: Philadelphia
STATE: ph
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LOCATION:
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                                                                                                                                                                                  FILING DATE:
                                                                                                                                                                                                                                                                                                                                  COUNTRY:
                                                                                                                                                                                                   APPLICATION NUMBER:
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50.0%;
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/note= "an amine protecting group or a solid support can be present or absent on the primary amino group"
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/note= "a methyl group is
group"
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/notes= "a hydroxyl protecting group can
present or absent on the hydroxyl group"
                                                                                                                                  US 08/338,890
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Rolando
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                                                   UPN-2040
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Pred. No. 1.6e+05;
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RESULT, 17
US-09-258-754-268
; Sequence 268, Application US/09258754
; Patent No. 6174687
; GENERAL INFORMATION:
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                                                                                                                                                       Query Match
Best Local Similarity
"hes 3; Conserv
                                                                                                                                                                                                                                              ; OTHER INFORMATION: synthetic construct US-09-326-718-6
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Best Local Similarity
Matches 3; Conserv
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LENGTH: 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Ruoslahti, Erkki
APPLICANT: MacKenna, Deidre A.
APPLICANT: MacKenna, Deidre A.
TITLE OF INVENTION: Heart Homing Peptides and
TITLE OF INVENTION: Using Same
FILE REFERENCE: P-LJ 3512
                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQ ID NOS: 15
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                CURRENT FILING DATE: 1999-06-07
                                                                                                                                                                                                                                                                           FEATURE:
                                                                                                                                                                                                                                                                                       ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                          TYPE: PRT
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OTHER INFORMATION:
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LOCATION:
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50.0%;
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/note= "a hydroxyl protecting group can
present or absent on the hydroxyl group"
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/note= "an amine protecting group or a solid support can be present or absent on the primary amino group"
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/note= "a methyl group is present on the amino
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Pred. No.
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Pred. No. 1.6e+05;
                                                                                                                                                                     Mismatches
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                                                                                                                                                                                                  DB 4;
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; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; EBATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic US-09-042-107-268
                                                                                                                                                      RESULT 19
US-08-350-260A-464
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Best Local Similarity
These 3; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Ruoslahti, Erkki
APPLICANT: Pasqualini, Renata
TITLE OF INVENTION: Molecules that Home to Various Selected Organs
TITLE OF INVENTION: Tissues
TITLE OF INVENTION: Tissues
TILLE REFERENCE: P-LJ 2892
CURRENT APPLICATION NUMBER: US/09/042,107
CURRENT APPLICATION NUMBER: US/09/042,107
CURRENT FILING DATE: 1998-03-13
NUMBER OF SEQ ID NOS: 436
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 268
LENGTH: 7
                                                                                                                   sequence 464, Application US/08350260A
Patent No. 5962255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILE REFERENCE: P-LJ 3443
CURRENT APPLICATION NUMBER: US/09/258,754
CURRENT FILING DATE: 1999-02-26
EARLIER APPLICATION NUMBER: 09/042,107
EARLIER FILING DATE: 1998-03-13
NUMBER OF SEQ ID NOS: 452
SOFTWARE: PATENTIN Ver. 2.0
SEQ ID NO 268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 268, Application US/09042107
Patent No. 6232287
                                                                                                                                                                                                                                                                                            Matches
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Best Local :
                                                                                 GENERAL INFORMATION: APPLICANT: Winter
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TITLE OF INVENTION: Methods of Identifying Lung Homing Molecules Using
TITLE OF INVENTION: Membrane Dipeptidase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Ruoslahti, APPLICANT: Pasqualini,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
ORGANISM: Artificial Sequence
                            APPLICANT:
APPLICANT:
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APPLICANT:
                APPLICANT:
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les 3; Conser
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                                             Griffiths, Andrew David Williams, Samuel Cameron
                                                                                 Winter,
            Waterhouse, Peter
Nissim, Ahuva
                                                                                                                                                                                                                                                                                              Conservative
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                                                                                 Gregory Paul
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Pred. No. 1.6e+05;
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Pred. No. 1.6e+05,
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RESULT 20
US-09-196-934-16
; Sequence 16, Application US/09196934
; Patent No. 6191256
; GENERAL INFORMATION:
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Best Local Similarity
Thehes 2; Conserv
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APPLICATION NUMBER: GB 9110549.4
FILING DATE: 15-MAY-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9206318.9
FILING DATE: 24-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB91/01134
FILING DATE: 100-7111.1007
APPLICANT: Chen, Li Ang APPLICANT: Beuttner, Joseph A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: PCT/GB
FILING DATE: 15-MAY-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB
FILING DATE: 24-MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/
                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US 08/307,619 FILING DATE: 16-SEP-1994 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Smith, Andrew John Hammond
TITLE OF INVENTION: Methods for producing members of specific
TITLE OF INVENTION: binding pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 31-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 0
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                                                                                                                                                                                                                                                                                                                                                                  TYPE: amino acid
STRANDEDNESS: si
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE/DOCKET NUMBER: 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Clough, David W
REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/08/350,260A FILING DATE: 05-DEC-1994
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Pred. No. 1.6e+05;
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; OTHER INFORMATION: Description of Artificial Sequence:Synthetic
US-09-196-934-16
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US-07-980-520-2
                                                                                                   US-07-980-520-2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: PatentIn Ver. 2.0 SEQ ID NO 16
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Best Local Similarity 33.3%;
Matches 2; Conservative
Query Match 47.2%;
Best Local Similarity 60.0%;
Matches 3; Conservative
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CURRENT FILING DATE: 1998-11-20
NUMBER OF SEQ ID NOS: 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Carbonell, Ruben G. TITLE OF INVENTION: Recombinant Factor VIII Binding Peptides FILE REFERENCE: MSB-7251
                                                                                                                                                                                                 TELEFAX: (202) 833-8716 INFORMATION FOR SEQ ID NO: 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
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APPLICANT:
                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/1
FILING DATE: 04-APR-1988
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 833-7533
                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/589,003
FILING DATE: 27-SEP-1990
                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION DATA:
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TITLE OF INVENTION: Antiblodies That Bind To '2-Antiplasmin
TITLE OF INVENTION: Crosslinked To Fibrin Which Do No. 558:
TITLE OF INVENTION: '2-Antiplasmin
                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US FILING DATE: Herewith CLASSIFICATION: 424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CITY: Washington
                                                                                                                    TOPOLOGY:
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Haber, Edgar
                                                                                                                                                          7 amino acids
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                                                                                                                                                                                                                                                                                                   US 07/177,222
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Score 17; DB 1; L
Pred. No. 1.6e+05;
0; Mismatches 2;

    Mismatches

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Pred. No. 1.6e+05;
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                                     Length 7;
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US-08-977-680-2
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US-08-680-634-2
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Sequence 2, Application US/08977680 Patent No. 6280730
GENERAL INFORMATION:
APPLICANT: Reed, Guy L.
APPLICANT: Haber, Edgar
                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                         Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 10-SEP-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/589,003
FILING DATE: 27-SEP-1990
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US 07/177,222
FILING DATE: 04-APR-1988
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)_371-2600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/980,520
FILING DATE: 01-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/943,372
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APPLICATION NUMBER: US
FILING DATE: Herewith
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Matsueda, Gary R.
TITLE OF INVENTION: Antibodies That Bind To '2-Antiplasmin
TITLE OF INVENTION: Crosslinked To Fibrin Which Do No. 5831031 Inhibit Plasma
TITLE OF INVENTION: '2-Antiplasmin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Haber, Edg
APPLICANT: Matsueda,
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                                                                                                                                                                                                                                                                                                                                                                       TYPE:
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                                                                                                                                                                                                                                                                                                                                                                                    LENGTH:
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                                                                                                                                                                                                                                             Conservative
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60.0%;
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                                                                                                                                                                                                                                     Score 17; DB 2; Le
Pred. No. 1.6e+05;
Pred. No. 1.6e+05;
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                                                                                                                                                   Sequence 2, Application US/08467472C Patent No. 6028168
                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local
                                                                                                                                                                                                                                                                                                                       Matches
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PRIOR APPLICATION NUMBER: US 08/680,634
FILING DATE: 16-JUL-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/980,520
FILING DATE: 01-DEC-1992
                                                                                                                                  GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INFORMATION FOR SEQ ID NO:
                                                                              APPLICANT: GOODMAN,
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/589,003
FILING DATE: 27-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/177,222
FILING DATE: 04-APR-1988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/977,680
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TITLE OF INVENTION: Antibo
TITLE OF INVENTION: Crossl
TITLE OF INVENTION: '2-Ant
                                                                CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELECOMMUNICATION INFORMATION:
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               STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C STREET: 1100 New York Ave, N.W., Suite 600 CITY: Washington
                                                                                                                                                                                                                                                                                                                     Local Similarity
les 3; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: KIM, JUDITH U REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE:
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OPERATING SYSTEM:
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                                                ADDRESSEE:
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NEW YORK
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                                                BROOKS HAIDT HAFFNER & DELAHUNTY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (202) 371-2600
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60.0%;
                                                                                                 LANTHIONINE BRIDGED PEPTIDES
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Antibodies That Bind To '2-Antiplasmin
Crosslinked To Fibrin Which Do No. 6280730 Inhibit Plasma
'2-Antiplasmin
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/742,908
FILING DATE: 9-AUGUST-1991
APPLICATION NUMBER: US 08/021,606
FILING DATE: 28-JANUARY-1993
ATTORNEY/AGENT INFORMATION:
NAME: ROBINSON, WILLIAM R.
REGISTRATION NUMBER: 27,224
REFERENCE/DOCKET NUMBER: LKR-9122B
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 697-3255
                        JOURNAL: DATA
JOURNAL: JOHN WILE:
VOLUME: JOHN WILE:
ISSUE: SUPPLEMENTARY
PAGES: 511 - 519
PATE: 1986
PATE: 1986
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENCTH: 8
TYPE: AMINO ACID
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ORIGINAL SOURCE: AMINO ACIDS LISTED IN SEQUENCE -
ORIGINAL SOURCE: INC.,
ORIGINAL SOURCE: 3700 MARKET STREET, PHILADELPHIA, PA
IMMEDIATE SOURCE: SYNTHESIZED PEPTIDE
                                                                                                                 PUBLICATION INFORMATION:
AUTHORS: SHIBA, TETSUO
TITLE: CHEMISTRY OF LANTHIONINE PEPTIDES
JOURNAL: BIOPOLYMERS
VOLUME: JOHN WILLEY AND SONS, INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE:
DESCRIPTION: PEPTIDE
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CURRENT APPLICATION DATA:
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MEDIUM TYPE: 3.5" FLOPPY DISC
                                                                                                                                                                                                                                                                                                                                                                                                          PUBLICATION INFORMATION:
AUTHORS: JUNG, GUNTHER
TITLE: PEPTIDES WITH SULFIDE BRIDGES AND
JOURNAL: PROCEEDINGS OF THE 11TH AMERICAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HYPOTHETICAL: NA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEPHONE: (214) TELEPHONE: (212) 557-5635
                                                                                                                                                                                                              FILING DATE:
PUBLICATION DATE:
RELEVANT RESIDUES IN SEQ ID NO:
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OPERATING SYSTEM: MS-DOS Version 6.2
SOFTWANDE: ASSTT
DOCUMENT NUMBER: FILING DATE: PUBLICATION DATE:
                                                                                                                                                                                                                                                                        DATE: 1990
DOCUMENT NUMBER:
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IDENTIFICATION METHOD:
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6-JUNE-1995
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a -S- bridge is present between Cys and Ser
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Best Local Similarity 40.0
Matches 2; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
                                                                     INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                 FILING DATE: 28-JANUARY-19
ATTORNEY/AGENT INFORMATION:
NAME: ROBINSON, WILLIAM R.
                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: ASCII
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" FLOPPY DISC
COMPUTER: COMPAQ - IBM COMPATIBLE
OPERATING SYSTEM: MS-DOS Version 6.2
                                                                                                                    REGISTRATION NUMBER: 27,224
REFERENCE/DOCKET NUMBER: LKI
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 697-3355
                                                                                                                                                                                                                                                                                   FILING DATE: 6-JUNE-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROOKS HAIDT HAFFNER & DELAHUNTY
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                                                  SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: GOODMAN, TITLE OF INVENTION:
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OTTY: NEW YORK
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APPLICATION NUMBER: US 08/021
APPLICATION NUMBER: US 08/021
FILING DATE: 28-JANUARY-1993
TYPE: AMI
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                                                                                     TELEX:
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RELEVANT RESIDUES IN SEQ ID NO:
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IN THE SYNTHESIS OF A CYCLIC DISULFIDE PEPTIDE
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                                                                                                 (212) 557-5635
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40.0%;
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Pred. No. 1.6e+05;
1; Mismatches 2
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DOCUMENT NUMBER:
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; PUBLICATION DATE:
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Best Jocal Similarity
Matches 2; Conserv
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DATE: 1990

DOCUMENT NUMBER:
FILING DATE:
FULING DATE:
PUBLICATION DATE:
PUBLICATION DATE:
RELEVANT RESIDUES IN SEQ ID NO: 3: CYS-SER
PUBLICATION:
AUTHORS: SHIBA, TETSUO
TITLE: CHEMISTRY OF LANTHIONINE PEPTIDES
JOURNAL: BIOPOLYMERS
VOLUME: JOHN WILEY AND SONS, INC.
ISSUE: SUPPLEMENTARY
DACES: 511 510
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FILING DATE:
PUBLICATION DATE:
RELEVANT RESIDUES IN SEQ ID NO:
PUBLICATION IMPORMATION:
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AUTHORS: JUNG, GUNTHER
TITLE: DEPRESENT ...
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ANTI-SENSE: N/A
FRAGMENT TYPE: INTERNAL
ORIGINAL SOURCE: AMINO ACIDS LISTED IN SEQUENCE -
ORIGINAL SOURCE: INC.,
ORIGINAL SOURCE: 3700 MARKET STREET, PHILADELPHIA, PA 19104
IMMEDIATE SOURCE: SYNTHESIZED PEPTIDE
POSITION IN GENOME: N/A
FEATURE:
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DATE: 1990
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IDENTIFICATION OF A THIOETHER
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T-cell receptor gamma chain (5t.2) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 07-May-1999
                                                                 A;Reference number: A41946; MUID:920
A;Accession: A38887
A;Status: preliminary; not compared
A;Molecule type: DNA
A;Residues: 1-8 <WHE>
C;Keywords: T-cell receptor
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A;Title: WWamide-1, -2 and -3: novel neuromodulatory peptides isolated from ganglia of A;Reference number: S33244; MUID:93265912
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 neuromodulatory peptide WWamide-2 - giant African snail
C:Species: Achatina fulica (giant African snail)
C:Date: 19-Mar_1997 #sequence_revision 19-Mar-1997 #text_change 24-Jul-1997
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A; Residues: 1-8 <HOL>
C; Keywords: glycoprotein
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R;Yamada, M.; Wasserman, R.; Reichard, B.A.; §
J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific A;Reference number: PT0222; MUID:91108337
A;Accession: PT0278
                                                                                                                                                                                                                                                                                                                                                                                                              Ig heavy chain CRD3 region (clone 4-88) - human (fragment) C;Species: Homo sapiens (man) C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996 C;Accession: PT0278
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A;Residues: 1-5 <LEU>
A;Experimental source: pedal ganglia
C;Keywords: neuropeptide; opioid peptide
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C:Species: Mytilus edulis (blue mussel)
C:Date: 07-Oct-1994 #sequence_revision 07-Oct-1994 #text_change 21-Jan-2000
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C;Species: Mytilus edulis (blue mussel)
C;Date: 07-0ct-1994 #sequence_revision 07-0ct-1994 #text_change
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R; Leung, M.K.; Stefa
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Pred. No. 2.2e
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C; Keyword5: heterotetramer; immunoglobulin
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J. Exp. Mcd. 173, 395-407, 1991
A:Title: Preferential utilization of specific
A;Reference number: PT0222; MUID:91108337
A;Accession: PT0308
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C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
C;Accession: PT0308
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C;Date: 19-Mar-1997 #sequence_revision 29-Aug-1997 #text_change 12-Jun-1998
C;Accession: S66195
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S66195
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A; Residues: 1-5 < YAM>
                                                                                                                                                                                                                                                                                                                    A;Molecule type: protein
A;Residues: 1-6 <HUE>
C;Superfamily: alcohol dehydrogenase; long-chain alcohol dehydrogenase homology
C;Keywords: alcohol metabolism; NAD; oxidoreductase
                                                                                                                                                                                                                                                                                                                                                                                                                                    R:Hjelmqvist, L.; Hackett, M.; Shafqat, J.; Danielsson, O.; Iida, J.; Hendrickson, R.C FEBS Lott. 367, 237-240, 1995
A;Title: Multiplicity of N-terminal structures of medium-chain alcohol dehydrogenases.
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RESULT 11

A31263
dihydrofolate reductase (EC 1.5.1.3) / thymidylate synthase (EC 2.1.1.45) -
C;Species: Plasmodium falciparum
C;Species: Plasmodium falciparum
C;Datc: 28-Feb-1990 #sequence_revision 28-Feb-1990 #text_change 20-Mar-1996
C;Accession: A31263
R;Petcrson, D.S.; Walliker, D.; Wellems, T.E.
R;Petcrson, D.S.; Walliker, D.; Wellems, T.E.
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Pred. No. 2.2e
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Pred. No. 2.2e+05;
1; Mismatches (
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2.2e+05;
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2.2e+05;
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A;Title: Evidence that a point mutation in dihydrofolate A;Reference number: A94217; MUID:89057886
A;Accession: A31263
A;Status: not compared with conceptual translation A;Molecule type: DNA
A;Residues: 1-6 <PET>
C;Keywords: methyltransferase; NADP; oxidoreductase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   R;Peterson, D.S.; Walliker, D.; Wellems, T.E.
Proc. Natl. Acad. Sci. U.S.A. 85, 9114-9118, 1988
A;Title: Evidence that a point mutation in dihydrofolate
A;Reference number: A94217; MUID:89057886
A;Accession: B31263
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B31263
B31263
dihydrofolate reductase (EC 1.5.1.3) / thymidylate
C;Species: plasmodium falciparum
C;Species: 28-peb-1990 #sequence_revision 28-feb-1990
C;pate: 28-peb-1990 #sequence_revision 28-feb-1990
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A;Title: Cerebellar degeneration-related antigen: a highly conserved A;Reference number: A35640; MUID:90222173
A;Accession: B35640
                                                                                                                                                                                                                                                                                                                                                                           cerebellar degeneration-related protein - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 28-Sep-1990 #sequence_revision 28-Sep-1990 #text_change 24-Jun-1993
C;Accession: B35640
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A;Molecule type: mRNA
A;Residues: 1-6 <CHE>
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A; Residues: 1-6 < PET>
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A41946
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T-cell receptor C; Species: Mus n
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Matches 1; Conserv
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1; Conservative
 r gamma chain (1t.22) - musculus (house mouse)
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pred. No. 2.2e+05;
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Pred. No.
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Pred. No. 2.
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2.2e+05;
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A; Molecule type: protein
A; Residues: 1-8 <FAN>
C; Superfamily: gastrin
C; Keywords: amidated carboxyl end; hormone; neuropeptide; sulfoprotein
F; 2/Binding site: sulfate (Tyr) (covalent) #status predicted
F; 8/Modified site: amidated carboxyl end (Phe) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 21-Oct-1992 #sequence_revision 21-Oct-1992 #text_change 02-Sep-2000
C;Accession: A60224
R;Madden IV, J; Evans, C.J; Tyler, A.N.; Esch, F.S.; Boehlen, P.; Makk, G.; Webe: J. Neurochem. 56, 1914-1920, 1991
A;Title: Isolation and characterization of opioid peptides from rabbit cerebellum. A;Reference number: A60224; MUID:91225680
A;Status: preliminary
                                                                                                                                                                                                                                        C;Species: Dasyurus viverrinus (southeastern quoll) C;Date: 07-Sep-1990 **sequence_revision 07-Sep-1990 C;Accession: P00012 R;Fan, Z.W.; Eng, J.; Shaw, G.; Yalow, R.S. peptides 9, 429-431, 1988 A;Title: Cholecystokinin octapeptide purified from A;Reference number: P00012; MUID:88234141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Title: Rearrangement and junctional-site sequence analyses of A;Reference number: A41946; MUID:92049316
A;Accession: A41946
A;Status: preliminary; not compared with conceptual translation A;Molecule type: DNA
A;Residues: 1-6 (*MHE)
A;Residues: 1-6 (*MHE)
C;Keywords: T-cell receptor
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A; Residues: 1-7 <MAD>
C; Superfamily: proenkepha
C; Keywords: neuropeptide;
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C:Accession: A41946
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A; Accession: PQ0012
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Best Local
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Cell. Biol. 11, 5902-5909, 1991
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                 Local Similarity hes 2; Conserv
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Pred. No.
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2.2e+05;
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                                     2.2e+05;
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                                                                                       variant surface glycoprotein MITat 1.6 - Trypanosoma brucei (fragment) C;Species: Trypanosoma brucei C;Date: 28-Oct-1994 #sequence_revision 28-Oct-1994 #text_change 07-May
                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Title: Molecular properties of the dissimilatory sulfite reductase from Desulfovibr A;Reference number: S63489; MUID:96085152
A;Accession: S63493
A;Status: preliminary
A;Molecule type: protein
A;Mesidues: 1-8 eSTE>
A;Accession: S63494
A;Accession: S63494
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C;Keywords: amidated carboxyl end; hormone; neuropeptide; sulfoprotein
F;2/Binding site: sulfate (Tyr) (covalent) #status predicted
F;8/Modified site: amidated carboxyl end (Phe) #status predicted
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C;Date: 30-Oct-1992 #sequence_revision 30-Oct-1992
C;Accession: A43001; PQ0012
R;Fan, Z.W.; Eng, J.; Shaw, G.; Yalow, R.S.
Peptides 9, 429-431, 1988
A;Title: (bolecystokinin octapeptide purified from A;Reference number: PQ0012; MUID:88234141
Mol. Biochem. Parasitol. 2, 135-150, 1981
A;Title: Glycopeptides from variant surface glycoproteins
A;Reference number: A61512; MUID:81172836
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 dissimilatory sulfite reductase gamma chain, membrane-bound and c;Species: Desulfovibrio desulfuricans C;Date: 28-Oct-1996 #sequence_revision 13-Mar-1997 #text_change C;Accession: S63493; S63494
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Best Local Similarity
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                                                     R; Holder, A.A.;
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A; Residues: 1-8 <
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               R;Steuber, J.; Arendsen, A.F.; Hagen, W.R.; Kroneck, P.M.H
Eur. J. Blochem. 233, 873-879, 1995
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2.2e+05;
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RESULT 21
A34626
RPCH-related neuropeptide - ferruginous spindle
C;Species: Fusinus ferrugineus (ferruginous spindle)
C;Date: 06-Jul-1990 #sequence_revision 06-Jul-1990 #tex
C;Accession: A34626
R;Kuroki, Y:; Kanda, T.; Kubota, I.; Fujisawa, Y.; Iked
Blochem. Blophys. Res. Commun. 167, 273-279, 1990
A;Title: A molluscan neuropeptide related to the crusta
A;Reference number: A34626; MUID:90179762
A;Accession: A34626.
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F37196
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A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-8 <HOL>
C;Keywords: glycoprotein
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J. Protein Chem. 9, 221-227, 1990
A:Title: Primary structure and biological activity of bradykinin potentiating peptides
A:Reference number: A37196; MUID:90351557
A:Accession: F37196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            bradykinin-potentiating peptide 6 - island jararaca
C;Species: Bothrops insularis (island jararaca)
C;Date: 14-Feb-1992 #sequence_revision 01-Dec-1992 #text_change 05-Aug-1994
C;Accession: F37196
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Best Local Similarity
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A;Residues: 1-3 <CIN>
A;Residues: pyroglutamic acid
C;Keywords: pyroglutamic acid
E;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
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PT0240
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A;Molecule type: protein
A;Residues: 1-4 <KUR>
C;Keywords: neuropeptide
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Ig heavy chain CRD3 region (clone 2-100B) - human (fragment) C:Species: Homo saplens (man)
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Pred. No. 2.2e+05;
1; Mismatches 0
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R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G. J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity A;Reference number: PT0222; MUID:91108337
A;Accession: PT0240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R;Harindranath, N.; Alexander, C.B.; Mage, R.G.
Mol. Immunol. 28, 881-888, 1991
A;Title: Evolutionarily conserved organization and sequences
A;Reference number: A53284; MUID:91342695
A;Accession: B53284
A;Status: preliminary
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C;Accession: PT0240
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A;Residues: 1-4 <YAM>
A;Experimental source: B lymphocyte
C;Keywords: heterotetramer; immunoglobulin
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7-cell receptor beta chain V-D-J region (121-1BV) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
C;Accession: PT0661
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T-cell receptor beta 2 chain D region, Dbeta2 - rabbit C; Species: Oryctolagus cuniculus (domestic rabbit) C; Date: 02-May-1994 #sequence_revision 18-Nov-1994 #te: C; Accession: B53284
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J. Exp. Med. 174, 115-124, 1991
J. Exp. Med. 174, 115-124, 1991
A;Title: Junctional sequences of fetal T cell receptor beta
A;Reference number: PT0509; MUID:91277601
A;Accession: PT0661
A;Accession: PT0661
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A;Residues: 1-5 <FEE>
A;Experimental source: day 4 postnatal thymus, strain BALB/C C;Keywords: T-cell receptor
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llarity 100.0%; Pred. No. 2.2e+05;
Conservative 0; Mismatches 0;
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Cholecystokinin-5 - dog

N;Alternate names: CCK-5
C;Species: Canis lupus familiaris (dog)
C;Date: 18-Oct-1989 #sequence_revision 18-Oct-1989 #text_change 18-Aug-2000
C;Accession: A;32516
R;Shively, J.; Reeve Jr., J.R.; Eysselein, V.E.; Ben-Avram, C.; Vigna, S.R.; Walsh, J.H.
A;Title: CCK-5: sequence analysis of a small cholecystokinin from canine brain and intes
A;Reference number: A;2516; MUID:87153871
A;Accession: A;32516
A;Molecule type: protein
A;Residues: 1-5 <SHI>C;Comment: This peptide corresponds to the five carboxyl-terminal residues of cholecysto
C;Superfamily: gastrin
C;Keywords: amidated carboxyl end; neuropeptide
F;5/Modified site: amidated carboxyl end (Phe) #status experimental
Search completed: January 14, 2002, 07:44:21 Job time: 407 sec
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Perfect score:
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    pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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Achatina fulica (Giant African snail).
Bukaryota; Metazoa; Mollusca; Gastropoda; Pulmonata;
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Minakata H., Ikeda T., Muneoka Y., Kobayashi M.,
"WWamide-1, -2 and -3: novel neuromodulatory pept
ganglia of the African giant snail, Achatina fuli
FEBS Lett. 323:104-108(1993).
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RESULT 6
BPP7_BOTIN
ID BPP7_BOTIN
AC P30425;
DT 01-APR-1993
DT 01-FEB-1994
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CCKN_MACEU
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Best Local :
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                                                                                                                                                                                                                                                                                                                       MEDLINE-88234(41; PubMed=3375140;
Fan Z.W., Eng J., Shaw G., Yalow R.S.;
"Cholecystokinin octapeptide purified from br:
marsupials.",
Peptides 9:429-431(1988).
-!- FUNCTION: THIS PEPTIDE HORMONE INDUCES GA:
-!- FUNCTION: THIS PEPTIDE HORMONE INDUCES GA:
-!- FUNCTION: THIS PEPTIDE HORMONE IN THE BRAIN IS NOT CLEAR.
-!- SIMILARITY: BELONGS TO THE GASTRIN/CHOLEC'
PIR; A43001; A43001.
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Best Local
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P30369;
01-APR-1993
                                                                                                                                                                                                                               MOD_RES
MOD_RES
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE=93265912; PubMed=8495720;
Minakata H., Ikeda T., Muneoka Y., Kobayashi M., Nomoto K.;
Minakata H., Ikeda T., Muneoka Y., Kobayashi M., Nomoto K.;
Minakata H., Ikeda T., Muneoka Y., Kobayashi M., Nomoto K.;
Minakata H., Ikeda T., Minakata M., Nomoto K.;
Minakata H., Ikeda T., Minakata M., Nomoto K.;
Minakata H., Ikeda T., Mobulatory peptides isolated from ganglia of the African giant snail, Achatina fulica.";
PEBS Lett. 323:104-108(1993).

PEBS Lett. 323:104-108(1993).

PINCTION: EXHIBITS MODULATORY EFFECTS ON THE PERIPHERAL NERVOUS SYSTEM. INHIBITS ACTIVITY ON A CENTRAL NEURON.

PIR; S33245; S33245.
                                                                                                                                                                                                                                                                                PIR; PQ0012; PQ0012.
InterPro; IPR001651; Gastrin.
PROSITE; PS00259; GASTRIN; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Dasyurus viverrinus (Southeastern quoll).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Metatheria; Diprotodontia; Macropodidae;
MCBI_TaxID=9315, 9279;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-APR-1993 (Rel. 25, Created)
01-APR-1993 (Rel. 25; Last sequence update)
01-OCT-1996 (Rel. 34, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CHOLECYSTOKININ (CCK).
                                                                                                                                                                                                                                                                      Amidation;
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PQ0012; PQ0012.
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1064 MW;
25, Created)
28, Last sequence
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50.0%;
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7362D5B69B041310
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AMIDATION.
DDCAA68378768B5A
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Pred. No. 1e+05;
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Pred. No. 1e+05;
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RESULT 8
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Best Local
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MEDLINE-9500997; PubMed-7523108;

Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkil Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkil Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkil Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkil Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkil Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkil Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkil Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkil Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkil Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkil Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkil Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkil Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkil Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkil Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkil Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkil Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkil Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkil Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkil Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkil B.A., Patterson R.M., Wichter L.L., He C., Selkil B.A., Patterson R.M., Wichter L.L., He C., Selkil B.A., Patterson R.M., Wichter B.A., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterso
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Cintra A.C.O., Vieira C.A., Giglio J.R.;
Cintra A.C.O., Vieira C.A., Giglio J.R.;
Cintra A.C.O., Vieira C.A., Giglio J.R.;
Primary structure and biological activity of bradykinin pote peptides from Bothrops insularis snake venom.";
J. Protein Chem. 9:221-227(1990).
J. Protein Chem. 9:221-227(1990).
I. PUNCTION: THIS PEPTIDE BOTH INHIBITS THE ACTIVITY OF THE ANGIOTENSIN-CONVERTING ENZYME AND ENHANCES THE ACTION OF BRADYKININ BY INHIBITING THE KINASES THAT INACTIVATE IT. IT ACTS AS AN INDIRECT HYPOTENSIVE AGENT.
PIR: G37196; G37196.
HYPOTENSIVE AGENT. PURBOLITONE CARROXYLIC ACTD. MOD BES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bothrops insularis (Island jararaca) (Quelmada jararaca).
Eukaryotu; Metazoa; Chordata; Crantata; Vertebrata; Euteleostomi;
Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;
Viperidae; Crotalinae; Bothrops.
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BRADYKININ-POTENTIATING PEPTIDE S5,2 (5A) (ANGIOTENSIN-CONVERTING
ENZYME INHIBITOR).
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SEQUENCE.
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-OCT-1994 (Rel. 30, Created)
01-OCT-1994 (Rel. 30, Last sequence update)
01-FEB-1995 (Rel. 31, Last annotation update)
UNKNOWN PROTEIN FROM 2D-PAGE OF FIBROBLASTS (
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P38639;
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llarity 100.0%;
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0; Mismatches
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1e+05;
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RESULT 9
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01-NOV-1995 (Rel.
01-NOV-1995 (Rel.
15-JUL-1998 (Rel.
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MEDLINE-92262851; PubMed-1585017;
Schoofs L., Holman G.M., Proost P.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OVM_LEPDE STANDARD; PRT; 6 AA.
P42985;
01-NOV-1995 (Rel. 32, Created)
01-NOV-1995 (Rel. 32, Last sequence update)
01-NOV-1995 (Rel. 32, Last annotation update)
01-NOV-1995 (Rel. 32, Last annotation update)
01-NOV-1995 (Rel. 32, Last annotation update)
01-NOV-1995 (Rel. 32, Last sequence update)
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Pterygota; Neoptera; Orthopteroidea; Orthoptera; Caelifera;
Acridomorpha; Acridoidea; Acrididae; Locusta.
NCBI_TaxID=7004;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PIR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "Locustakinin, a novel myotropic peptide from Locusta mig
isolation, primary structure and synthesis.";
Regul. Pept. 37:49-57(1992).
-i- FUNCTION: MYOTROPIC PEPTIDE. MAY BE IMPORTANT IN THE
OF ION TRANSPORT AND INHIBITION OF DIURETIC ACTIVITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Schoofs L., Holman de Loof A.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Chrysomelinae; L
NCBI_TaxID=7539;
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MOD_RES
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LOCUSTAKININ I.
                                                                                                                                                                                                                         decemlineata.";
Peptides 12:31-36(1991).
-i- FUNCTION: MYOTROPIC
                                                                                                                                                                                                                                                                                        Spittaels K., Schoofs L., Grauwels L., Smet H., van Damme J., Proost P., Torrekens S., de Loof A.; Proost P., Torrekens S., de Loof A.; "Isolation, identification and synthesis of novel oviductal motility stimulating head peptide in the Colorado potato beetle, Leptinotarsa
                                                                                                                                                                   Neuropeptide; Amidation.
MOD_RES 6 6
                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=91271080; PubMed=2052497;
                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE, AND SYNTHESIS.
                                                                                                                                               SEQUENCE
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A61068; A61068.
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2; Conser
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                                       30.6%; ilarity 100.0%; Conservative
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32, Last sequence up
36, Last annotation
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686365A5B9CDB000 CRC64;
                                         Score 11; DB
b; Pred. No. 1e+
0; Mismatches
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6B07632B5DD03000
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Pred. No.
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synthesis.";
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le+05;
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1e+05;
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30-MAY-2000 (Rel. 3
30-MAY-2000 (Rel. 3
30-MAY-2000 (Rel. 3
                                                                                                                                         Marks N.J., Sangster N.C., Maule A.G., Halton D.W., Thompson D.P., Shaw C.;
Submitted (MAY-1988) to the SWISS-PROT data bank.
-!- FUNCTION: ACTIVE ON NEUROMUSCULATURE.
-!- SIMILARITY: BELONGS TO THE FARP (FMRFAMIDE RELA
                                                                                                                                                                                                                                                                                                   FAR3_HAECO STANDARD; PRT; 7 AA. P81298; 90-MAY-2000 (Rel. 39, Created) 30-MAY-2000 (Rel. 39, Last sequence update) 30-MAY-2000 (Rel. 39, Last annotation update) FMRFAMIDE-LIKE NEUROPEPTIDE PF3 (KSAYMRF-AMIDE).
                                                                                        Neuropeptide; Amidation.
MOD_RES 7 7
SEQUENCE 7 AA; 902 MW.
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SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TISSUE=Cerebral ganglion, and Thoracic ganglion, MEDLINE=98121193; PubMed=9461295; Duve H., Johnsen A.H., Maestro J.-L., Scott A.G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Carcinus maenas (Common shore crab) (Green crab).

Bukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;

Bumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyura;

Bubrachyura; Portunoidea; Portunidae; Carcinus.

NCBI_TaxID=6759;
                                                                                                                                                                                                             TISSUE-Neuron;
                                                                                                                                                                                                                                                     NCBI_TaxID=6289;
                                                                                                                                                                                                                                                                 Trichostrongyloidea; Haemonchidae;
                                                                                                                                                                                                                                                                               Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                          Haemonchus contortus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          allatostatin superfamily in the shore crab Eur. J. Biochem. 250:727-734(1997).
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ALL2_CARMA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -!- FUNCTION: MAY ACT AS A NEUROTRANSMITTER OR NEUROMODULATOR.
-!- SIMILARITY: BELONGS TO THE ALLATOSTATIN FAMILY:
Neuropeptide; Amidation; Multigene family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CARCINUSTATIN 2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Thorpe A.
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a;
                        Similarity 2; Conserv
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                          Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             770 MW;
                                                                                                                                                                                                                                                             Nematoda; Chromadorea; Rhabditida; Stron; Haemonchidae; Haemonchinae; Haemonchinae
                                    30.6%;
                                                                                          MW;
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                                                                                       AMIDATION.
69D4068B5DC5B350
                                                                                                                                           THE FARP (FMRFAMIDE RELATED PEPTIDE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AMIDATION (POTENTIAL)
672879CDCB5DDB70 CRC64;
                    Score 11; DB;
; Pred. No. le+1
0; Mismatches
                        0;
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Pred. No.
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                                    DB 1;
1e+05;
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1e+05;
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                                                                                                                                                                                                Geary T.G.,
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RESULT 13
ACI_THUAL STANDARD; PRT; 8 AA.
ID ACI_THUAL (Created)
Col_NOV-1990 (Rel. 16, Created)
DT 01-NOV-1990 (Rel. 16, Last sequence update)
DT 01-NOV-1990 (Rel. 16, Last sequence update)
DT 01-NOV-1990 (Rel. 16, Last annotation update)
DT 01-NOV-1990 (Rel. 16, Last annotation update)
DT 01-NOV-1990 (Rel. 16, Last annotation update)
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DT 01-NOV-1990 (Rel. 16, Last sequence update)
DT 01-NOV-1990 (Rel. 16, Last sequence update)
DT 01-NOV-1990 (Rel. 16, Last sequence update)
DC ANGIOTENSIN-CONVERTING ENZYME INHIBITOR.
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrat
OC Actinopterygii; Neopterygii; Teleostei; Euteleost
OC Acanthomorpha; Acanthopterygii; Percomorpha; Perc
OC Scombridae; Thunnus.
OC Actinopterygii; Neopterygii; Percomorpha; Perc
OC Scombridae; Thunnus.
OC ROBITENIO-8236;
RN [1]
RP SEQUENCE.
RC TISSUE-Muscle;
RT ISSUE-Muscle;
RT ISOlation of angiotensin-converting enzyme inhim muscle.";
RT Biocham Y., Matsumoto S., Oka H., Teramoto T., Oka RT "Isolation of angiotensin-converting enzyme inhim muscle.";
RT Biocham Biophys. Res. Commun. 155:332-337(1988).
DR PIR; A31570; A31570.
SEQUENCE 8 AA; 953 MM; 6AA863733051F1B7 CRC64
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FAR3_PANRE
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Best Local 9
                                                                                                                                                                                                                                                                 KOhama Y., Matsumoto S., Oka H., Teramoto T., Okabe M. "Isolation of angiotensin-converting enzyme inhibitor muscle.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Thunnus albacares (Yellowfin tuna) (Neothunnus macropterus).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Ectinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
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SEQUENCE
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MEDLINE-94235053; PubMed-8179635;
Maule A.G., Shaw C., Bowman J.W., Halton D.W.,
Geary T.G., Thim L.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-NOV-1995 (Rel. 32, Last sequence update)
01-NOV-1995 (Rel. 32, Last annotation update)
FMRFAMIDE-LIKE NEUROPEPTIDE PF3 (KSAYMRF-AMIDE).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-NOV-1995 (Rel. 32,
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01-NOV-1995 (Rel. 32,
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living nematode, Panagrellus red." which is myoactive in the
parasitic nematode, Ascaris summ.",
Biochem. Biophys. Res. Commun. 200:973-980(1994).
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2; Conserv
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Pred. No.
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(C SPECIES-R.microptera; TISSUE-Corpora cardiaca;

(C SPECIES-R.microptera; TISSUE-Corpora cardiaca;

(C SPECIES-R.microptera; TISSUE-Corpora cardiaca;

(X MEDLINE-89145002; PubMed-3226948;

(X MEDLINE-89145002; PubMed-3226948;

(X Gaede G., Hilbich C., Beyreuther K., Rinehart K.L. Jr.;

(X Gaede G., Hilbich C., Beyreuther K., Rinehart K.L. Jr.;

(X Gaede G., Hilbich C., Beyreuther K., Rinehart K.L. Jr.;

(X Sequence analyses of two neuropeptides of the AKH/RPCH-family from

(**The Line of The Sequence and Corporation of the Sequence of Cardiaca After The BECINING OF FLIGHT, CAUSES RELEASE OF

(C CARDIACA AFTER THE BECINING OF FLIGHT, CAUSES RELEASE OF

(C CARDIACA AFTER THE BECINING OF FLIGHT SOURCE.

(C DIGLYCERIDES FROM THE FAT BODY AND THEN STIMULATES THE FLIGHT

(C -1- SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.

(C -1- SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.

(C -1- SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
                                                                                                                                                                                                                                                                                                                                                    Query Match 30. Best Local Similarity 100 Matches 1; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Primary sequence analysis by fast atom bombardment mass of a peptide with adipokinetic activity from the corpora the cricket Gryllus bimaculatus."; Blochem. Blophys. Res. Commun. 149:908-914(1987).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gryllus bimaculatus (Two-spotted cricket), and Romalea microptera (Lubber grasshopper). Romalea microptera (Lubber grasshopper). Respecta; Insecta; Bukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta; Pterygota; Neoptera; Orthopteroidea; Orthoptera; Ensifera; Gryllidae; Gryllinae; Gryllus. NCBI_TaxID-6999, 7007;
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Ol-FEB-1994 (Rel. 28, Last sequence update)
Ol-FEB-1994 (Rel. 28, Last annotation update)
ADIPOKINETIC HORMONE G (AKH-G) (RO II)
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                             AKH_LIBAU STANDARD; PRT; 8 AA.
P25418;
01-MAY-1992 (Rel. 22, Created)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last annotation update)
ADIPOKINETIC HORMONE (AKH).
Libellula auripennis (Skimmer dragonfly).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Procrygota; Palaeoptera; Odonata; Anlsoptera; Libelluldae; Libellula.
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MEDLINE-88106553; PubMed-3426616;
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MOD_RES 1 1 PYR
MOD_RES 8 8 AMI
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                 NCBI_TaxID=6966;
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Best Local S
Matches 1
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01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last sequence update)
ADIPOKINETIC HORMONE (AKH).
Melolontha melolontha (Cockchafer),
Geotrupes stercorosus (Dor beetle), and
Pachnoda marginata (Flower beetle), and
Pachnoda marginata (Flower beetle).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Endopterygota; Coleoptera; Polyphaga;
Scarabaeiformia; Scarabaeidae; Melolonthinae; Melolontha.
NCBI_TaxID-7061, 7087, 7058;
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P25423;
01-MAY-1992
                                     InterPro; IPR002047; AKH.

PROSITE; PS00256; AKH; 1.

Neuropeptide; Amidation; Flight.

MOD_RES 1 PYR

MOD_RES 8 8 AMI

SEQUENCE 8 AA; 978 MW; 8665A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "The putative ancestral peptide of the adipokinetic/red-pigment-concentrating hormone family isolated and sequenced from a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaede
                                                                                                                                                                                                                                Gaede G., Lopata A., Kellner R., Rinehart K.L. Jr.;
"Primary structures of neuropeptides isolated from the corpora cardiaca of various cetonid beetle species determined by pulsed-liquid phase sequencing and tandem fast atom bombardment
                      PIR;
PIR;
                                                                                                                                                                                                                                                                                                                               SPECIES-P.marginata; TISSUE-Corpora cardiaca; MEDLINE-92265187; PubMed-1586453;
                                                                                                                                                                                                                                                                                                                                                                                                                             "A unique charged tyrosine-containing member of the adipokinetic hormone/red-pigment-concentrating hormone peptide family isolated sequenced from two beetle species."; Biochem. J. 275:671-677(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SPECIES=M.melolontha, and G.stercorosus; MEDLINE=91248100; PubMed=2039445;
                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
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  S15422; S15422.
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rPro; IPR002047;
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8665A771A9C452D6
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1e+05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TISSUE-Corpora cardiaca;
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FLIGHT
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RESULT 18
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Best Local :
                                  HTF1_PERAM
P04548;
13-AUG-1987
01-FEB-1994
Q1-FEB-1994
                                                                                                                                                                                                                                                         Neuropeptide;
MOD_RES
MOD_RES
SEQUENCE 8 A
                                                                                                                                                                                                                                                                                                                                      MEDLINE-90046758; PubMed-2813385;

Jaffe H., Raina A.K., Riley C.T., Fraser B.A., Nachman R.J.,

Vogel V.W., Zhang Y.-S., Hayes D.K.;

Primary structure of two neuropeptide hormones with adipokinetic and
hypotrehalosemic activity isolated from the corpora cardiaca of horse
flies (Diptera).";

Proc. Natl. Acad. Sci. U.S.A. 86:8161-8164(1989).

-i- FUNCTION: THIS HORMONE, RELEASED FROM CELLS IN THE CORPORA
CARDIACA AFTER THE BEGINNING OF FLIGHT, CAUSES RELEASE OF
DIGLYCERIDES FROM THE FAT BODY AND THEN STIMULATES THE FLIGHT
MUSCLES TO USE THESE DIGLYCERIDES AS AN ENERGY SOURCE.

-i- SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
        HYPERTREHALOSAEMIC FACTOR I (NEUROPEPTIDE M-I) (PERIPLAN (PEA-CAH-I) (LED-CC-I) (HYPERTREHALOSAEMIC NEUROPEPTIDE
Periplaneta
                                                                                                                                                                                                                                                                                                        InterPro; IPR002047; AFPROSITE; PS00256; AKH;
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01-FEB-1994 (Rel.
01-FEB-1994 (Rel.
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SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Tabanidae; Tabanus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Tabanus atratus (Horse fly).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pterygota; Neoptera;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NCBI_TaxID=7207;
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MOD_RES
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2S00256; AKH; 1.
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americana
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(Rel. 28, Last sequence update)
(Rel. 28, Last annotation updat
HORMONE (AKH) (DIPTERAN CORPOR
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PYRROLIDONE CARBOXYLIC ACID
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                                                                                   STANDARD;
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        05, Created)
28, Last sequence update)
28, Last sequence update)
28, Last annotation update)
C FACTOR I (NEUROPEPTIDE M-I) (PERIPLANETIN CC-I)
C FACTOR I (NEUROPEPTIDE I).
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1022 MW;
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(American
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86786771A9D1A736
                                                                                                                                                                                            Score 11; DB; Pred. No. 1e+0; Mismatches
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867AB775AB544736 CRC64;
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Pred. No.
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1e+05;
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Query Match
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MOD_RES
MOD_RES
SEQUENCE 8 A
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PIR;
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"Primary structures of hypertrehalosaemic neuropeptides isolated from the corpora cardiaca of the cockroaches Leucophaea maderae, Gromphadorhina portentosa, Blattella germanica and Blatta orientalis and of the stick insect Extatosoma tiaratum assigned by tandem fast
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE.
SPECIES=L.decemlineata; TISSUE=Corpora
MEDLINE=90160053; PubMed=2576128;
                                                                                                                                                                                                                                                                                                                   PIR;
                                                                                                                                                                                                                                                                                                                                       PIR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           atom bombardment mass spectrometry.";
Biol. Chem. Hoppe-Seyler 371:345-354(1990).
-!- FUNCTION: HYPERTREHALOSAEMIC FACTORS ARE NEUROPEPTIDES THAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "The metabolic neuropeptides of the corpus cardiacum from the potato beetle and the American cockroach are identical."; Peptides 10:1287-1289(1989).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "Isolation and primary structure of two peptides with cardioacceleratory and hyperglycemic activity from the cardiaca of Periplaneta americana.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SPECIES=P.americana;
MEDLINE=84298179; PubMed=6591205;
Scarborough R.M., Jamieson G.C.,
Miller C.A., Schooley D.A.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Leptinotarsa decemlineata (Colorado potato beetle), and Blatta orientalis (Oriental cockroach).

Blatta orientalis (Oriental cockroach).

Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria; Blattoidea; Blattidae; Periplaneta.

NCBI_TaxID=6978, 7539, 6976;
                                                                                                                                                                                                                                                                     InterPro; IPR002047; AKH.
PROSITE; PS00256; AKH; 1.
                                                                                                                                                                                                                                                                                                                                                                                               -!- SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SPECIES=B.orientalis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE=90253659;
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S08995; S08995.
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AA;
                                                                                                                                                                                                                                                     Amidation.
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PubMed=2340112;
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ffer M.H., O'Shea M.,
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AMIDATION.
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01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last sequence update)
HYPERTREHALOSAEMIC FACTOR II (NEUROPEPTIDE M-II) (PERIPLANETIN CC-2)
(PEA-CAH-II) (LED-CC-II) (HYPERTREHALOSAEMIC NEUROPEPTIDE II).
Periplaneta americana (Americana cockroach),
Loptinotarsa decemilineata (Colorado potato beetle), and
Blatta orientalis (Oriental cockroach).
                                                                                                                                     MOD_RES
SEQUENCE
                                                                                                                                                                                                                                                                                   Gadde G., Rinchart K.L. Jr.;

"Primary structures of hypertrehalosaemic neuropeptides isolated from Primary structures of hypertrehalosaemic neuropeptides isolated from the corpora cardiaca of the cockroaches Leucophaea maderae, Gromphadorhina portentosa, Blattella germanica and Blatta orientalis and of the stick insect Extatosoma tiaratum assigned by tandem fast atom bombardment mass spectrometry.";

Biol. Chem. Hoppe-Seyler 371:345-354(1990).

-I. FUNCTION: HYPERTREHALOSAEMIC FACTORS ARE NEUROPEPTIDES THAT ELEVATE THE LEVEL OF TREHALOSE IN THE HEMOLYMPH (TREHALOSE IS THE MAJOR CARBOHYDRATE IN THE HEMOLYMPH OF INSECTS).

-I. SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SPECIES-P.americana;
MEDLINE-85046530; PubMed-654
Witten J.L., Schaffer M.H.,
Rinehart K.L. Jr.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Isolation and primary structure of two peptides with cardioacceleratory and hyperglycemic activity from the cardiaca of Periplaneta americana.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattoidea; Blattoidea; Blattoide; Periplaneta.
NCBI_TaxID=6978, 7539, 6976;
                                                                                                                                                                                                                                                           PIR; A05170; A05170.
PIR; S08996; S08996.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SPECIES P.americana;
MEDLINE:84298179; PubMed-6591205;
Scarborough R.M., Jamieson G.C., Kalish F., Kramer S.J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Structures of two cockroach neuropeptides assigned by bombardment mass spectrometry."; Blochem. Blophys. Res. Commun. 124:350-358(1984).
                                                                                                                                                                                                                                                                                                                                                                                                                                                         SPECIES-B.orientalis; TISSUE-Corpora cardiaca; MEDLINE-90253659; PubMed-2340112;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaede G., Kellner R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SPECIES.L.deccmlineata; TISSUE-Corpora cardiaca
MEDLINE:90160053; PubMed:2576128;
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                                                                                                                                                              Neuropeptide;
                                                                                                                                                                                                 PROSITE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE.
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                                                          Local Similarity
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PS00256; AKH; 1.
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ffer M.H., O'Shea
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O;
                                                                                                                                   PYRROLIDONE CARBOXYLIC ACID AMIDATION. 86745771A9D1A736 CRC64;
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Pred. No.
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1e+05;
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Pterygota; Nec
Cucujiformia;
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MOD_RES
SEQUENCE 8 A
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Leucophaea maderae (Madeira cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Bla
Blaberoidea; Blaberidae; Leucophaea.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "The primary structure of the hypertrehalosemic neuropeptide tenebrionid beetles: a novel member of the AKH/RPCH family."; Peptides 11:455-459(1990).
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MEDLINE-90341081;
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01-FEB-1994 (Rel. 28, Last snootation update)
01-FEB-1994 (Rel. 28, Last anotation update)
HYPERTREHALOSAEMIC FACTOR (HOTH) (HYPERTREHALOSEMIC NEUROPEPTIDE).
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01-MAY-1992
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           Neuropeptide; Amidation. MOD_RES 8 8
                                                                      Comp.
                                                                                 Cephalomyotropins."
                                                                                            Holman G.M., Cook B.J., Nachman R.J.; "Isolation, primary structure and synthesis of two neuropeptides from Leucophaea maderae: members of a new family of
                                                                                                                                 TISSUE-Head;
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SEQUENCE
                                   Comp. Biochem. Physiol. 84C:205-211(1986).
-I- FUNCTION: THIS CEPHALLOMYOTROPIC PEPTIDE ST
-I- SCTYVITY OF COCKROACH PROTODEUM (HINGUT).
-I- SIMILARITY: TO THE OTHER LEUCOKININS.
                                                                                                                                             SEQUENCE, AND SYNTHESIS
                                                                                                                                                                  NCBI_TaxID=6988;
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SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
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B43976; B43976.
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 DC6365B449CDC76A CRC64;
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Pred. No.
            AMIDATION
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RESULT 23
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ID 01-MAY
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Best Local (
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                                                    Holman G.M., Cook B.J., Nachman R.J.;
"Primary structure and synthesis of two additional neuropeptides from Leucophaea maderae: members of a new family of Cephalomyotropins.";
                                                                                                                                                                  Leucophaea maderae (Madeira cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blaberoidea; Blaberidae; Leucophaea.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-MAY-1991 (Rel. 18, Created)
01-MAY-1991 (Rel. 18, Last sequence update)
01-MAY-1991 (Rel. 18, Last annotation update)
LEUCOKININ II (L-II)
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MOD_RES 8 8
SEQUENCE 8 AA; 852 MW;
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Eukaryota; Metazoa; Arthropoda; Trache
Pterygota; Neoptera; Orthopteroidea; D
  Comp. Biochem. Physiol. 84C:271-276(1986).
-i- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACTILE
-ACTIVITY OF COCKROACH PROTOBEIM (HINDGUT).
-i- SIMILARITY: TO THE OTHER LEUCOKININS.
                                                                                                            TISSUE=Head;
                                                                                                                                                                                                                         LEUCOKININ III (L-III)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Holman G.M., Cook B.J., Nachman R.J.;
"Isolation, primary structure and synthesis of two neuropeptides from Leucophaea maderae: members of a new family of Cephalomyotropins.";
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                                                                                                                            SEQUENCE, AND SYNTHESIS.
                                                                                                                                                      NCBI_TaxID=6988;
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FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES ACTIVITY OF COCKROACH PROTODBUM (HINDGUT).
SIMILARITY: TO THE OTHER LEUCOKININS.
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DC6365A5B9C8676A CRC64;
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Pred. No.
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01-FEB-1991 (Rel. 17
30-MAY-2000 (Rel. 39
LEUCOKININ V (L-V).
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01-FEB-1991
01-FEB-1991
30-MAY-2000
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P21143;
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MOD_RES 8
SEQUENCE 8 AL
MEDLINE=87052651; PubMed=2877794;
Holman G.M., Cook B.J., Nachman R.J.;
"Isolation, primary structure, and synthesis
myotropic peptides of Leucophaea maderae.";
Comp. Biochem. Physiol. 88C:27-30(1987).
                                                                                                                                                                                                             _LEUMA
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01-MAY-1991 (Rel. 18, Last sequence update)
01-MAY-1991 (Rel. 18, Last annotation update)
1-EUCOKININ IV (L-IV).
1-EUCOKININ IV (L-IV).
1-Eucophaea maderae (Madeira cockroach).
1-Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta; Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
1-Blaberoidea; Blaberidae; Leucophaea.
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                                                       TISSUE=Head;
                                                                                                  Blaberoidea;
                                                                                                           Pterygota;
                                                                                                                      Eukaryota;
                                                                   SEQUENCE
                                                                                       NCBI_TaxID=6988;
                                                                                                                                  Leucophaea maderae (Madeira
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                                                                                                                                                                                                                                                                                                                                                                                       Comp. Biochem. Physiol. 84C:271-276(1986).
-i- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACTILE ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).
-i- SIMILARITY: TO THE OTHER LEUCOKININS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Holman G.M., Cook B.J.,
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                                                                                                  Blaberidae;
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100.0%; pr
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synthesis of two
members of a ne
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DC6365B1E9D5BDDA CRC64;
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DC6365B449C866DA
                                                                                                                                  cockroach).
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CC -1- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACTILE
CC ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).
CC -1- SIMILARITY: TO THE OTHER LEUCOKININS.
DR PIR; JS0315; JS0315.
KW Neuropeptide; Amidation.
FT MOD_RES 8 8 ANIDATION.
SO SEQUENCE 8 AA; 784 MW; 736365A5B9C865B8 CRC64;

Ouery Match 30.6%; Score 11; DB 1; Length 8;
Brit Local Similarity 100.0%; Pred. No. le+05;
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Search completed: January 14, 2002, 07:52:04

Job time: 679 sec
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PROHIBITIN (FRAGMENT).
 Q9TWH6;

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01-MAY-2000

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01-JUL-1997
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01-AUG-1998
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                              SEQUENCE
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Gene 158:291-294(1995).
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Q1-MAY-2000 (TrEMBLrel. 13, Created)
Q1-MAY-2000 (TrEMBLrel. 13, Last sequence update)
Q1-MAY-2000 (TrEMBLrel. 13, Last annotation update)
Q1-MAY-2000 (TrEMBLrel. 13, Last annotation update)
INOSITOL 1,4,5-TRISPHOSPHATE BINDING PROTEIN.
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SEQUENCE
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Comp. Biochem. Physiol. C,
Pharmacol. Toxicol. Endocrinol. 110:297-304(1995).
SEQUENCE 8 AA; 989 MW; 954772CAA87B0B59 CRC64;
                              Eukaryota; Metazoa;
Mammalia; Eutheria;
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01-AUG-1998 (TrEMBLrel. 07, Last annotation update)
SKELETAL MUSCLE-SPECIFIC CALCIUM CHANNEL (FRAGMENT).
                  NCBI_TaxID=10118;
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Fujita T., Minakata H., Nomoto K.;
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Eukaryota; Metazoa; An
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Rodentia;
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Pred. No. 4.7e+05;
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                              Craniata; Ver
Sciurognathi;
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SEQUENCE FROM N.A.
STRAIN-CV. ESSEX; TISSUE-
MEDLINE 91367679; Pubmed-
Laux T., Goldberg R.B.;
"A plant DNA binding prot
with HMG-box proteins.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE-92202192; PubMcd-1313009; Kanematsu T., Takeya H., Watanabe Y., O Iwanaga S., Hirata M.; "Putative inositol 1,4,5-trisphosphate cytosol."; J. Biol. Chem. 267:6518-6525(1992). SEQUENCE 8 AA; 1047 MW; D72415BB06C
                                                                                                                                                                    Glycine max (Soybean).

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosideurosids I; Fabales; Fabaceae; Papillonoideae; Glycine.
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Eukaryota; Metazoa; Chordata; Crani
Amphibia; Batrachia; Anura; Neobatr
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Wabnitz P.A., Bowie J.H., Tyler M.J., Wallace J.C.; "Peptides from the skin glands of the Australian buzzing Litori electrica. Comparison with the skin peptides from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Amphibian skin;
MOD_RES 6
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PubMed-1891369;
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Neobatrachia; Bufonoidea; Hylidae;
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RESULT
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P82065
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P82065;
01-MAY-2000
01-MAY-2000
01-MAY-2000
                              O85406 PRELIMINARY; PRT; 8 AA.
085406;
01-NOV-1998 (TrEMBLrel. 08, Created)
01-NOV-1998 (TrEMBLrel. 08, Last sequence update)
01-NOV-1998 (TrEMBLrel. 08, Last annotation updat
HYPOTHETICAL 1.0 KDA PROTEIN (FRAGMENT).
COXIElla burnetii.
                                                                                                                                                                                                                     MOD_RES
                                                                                                                                                                                                                                   Mahalingam R., Knap H.T.;
Submitted (FEB-1998) to the EMBL/GenBank/DDBJ databases.
EMBL; AF047050; AAC03556.1; ...
NON_TER 1 1
Bacteria; Proteobacteria;
Coxiella group; Coxiella.
NCBI_TaxID=777;
[1]
                                                                                                                                                                                                                                                                                                                                                                     TRYPTOPHYLLIN 5.1.
Litoria rubella (Desert tree frog).
Litoria; Metazoa; Chordata; Craniata; Ve
Eukaryota; Metazoa; Chordata; Neobatrachia;
Amphibia; Batrachia; Anura; Neobatrachia;
                                                                                                                                                                                                                                                                                                                  TISSUE=SKIN SECRETION;
Steinborner S.T., Wabnitz P.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE
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STRAIN=CV. ESSEX; TISSUE=ROOTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nucleic Acids Res. 19:4769-4769(1991).
                                                                                                                                                                                                            SEQUENCE
                                                                                                                                                                                                                                                                                                         Tyler M.J., Wallace J.C.;
                                                                                                                                                                                                                                                                                                                                     SEQUENCE,
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                                                                                                                                                                  Similarity 100
1; Conservative
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                          gamma subdivision;
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7401E9D3676046B0 CRC64;
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Pred. No.
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. 4.7e+05;
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a; Bufonoidea; Hylidae;
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RESULT
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ID 91
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RA LEE
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Best Local :
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Q15888;
Q1-NOV-1996 (TrEMBLrel. 01, C
Q1-NOV-1996 (TrEMBLrel. 01, L
Q1-AUG-1998 (TrEMBLrel. 07, L
(CLONE XP15H8A) (FRAGMENT).
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Q9S443;
Q1-MAY-2000
                                                                                                                                                                                                                                              Eukaryota; Metazoa;
Mammalia; Eutheria;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
STRAIN=NINE MILE PHASE I;
Willems H., Jaeger C., Ba
          TISSUE=PLACENTA;
Lee C.C., Yazdan
                                                                     Homo sapiens
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01-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Submitted (MAY-1998) to the EMBL/GenBank/DDBJ EMBL; AF064963; AAD09947.1; -
                                             NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                      STRAIN=R545
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                                                                                                                                                                                                                                                                                                                                                                Bacteria; Proteobacteria;
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NON_TER 1
                          SEQUENCE FROM N.A.
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2; Conser
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1; Conservative
Yazdani A., Wehnert M.I., Chinault C.A.,
                                            Metazoa; Chordata; C
Metazoa; Primates; (
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Pred. No.
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Pred. No.
M., Bailey J., Couch
, Baldini A., Lindsay
                                                    Craniata; Ve
Catarrhini;
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                                                   Vertebrata; Euteleostomi;
i; Hominidae; Homo.
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E.A., Zhao
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Z.Y.,
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RESULT
Q9VRD2
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SEQUENCE FROM N.A.

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STRALN-BERKELEY:

STRALN-BERKELEY:

MEDLINE-20166006; PubMed-10731132;

X MEDLINE-20166006; PubMed-10731132;

X Adams M.D., Celniker S.E., Holt R.A., Evans C.A., God Adams M.D., Celniker S.E., Li P.W., Hoskins R.A.

Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A.

Amanatides P.G., Scherer S.E., Richards S., Ashburner M.,

Antique R.A., Lewis S.E., Richards S., Ashburner M.,

Corree R.A., Lewis S.E., Yandell M.D., Zhang Q., (
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Best Local
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O1-MAY 2000 (TrEMBLrel. 13,
O1-MAY 2000 (TrEMBLrel. 13,
O1-MAY 2000 (TrEMBLrel. 13,
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                                                                                                                       Drosophila melanogaster (Fruit fly).
Eukaryota; Metazoa; Arthropoda; Tracheata;
Pterygota; Neoptera; Endopterygota; Diptera
Ephydroidea; Drosophilidae; Drosophila.
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SEQUENCE
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01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-AUG-1998 (TrEMBLrel. 07, Last annotation update)
                                                                                                                                                                    CG11666.
                                                                                                                                                                              CG11666 PROTEIN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Caskey C.T.H.;
Hum. Mol. Gene
                                                                                                              NCBI_TaxID=7227;
                                                                                                                                                                                                                                                                                                                                                                                                                                     Caskey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TISSUE=PLACENTA;
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Mammalia; Eutheria;
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1; Conserv
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1; Conserv
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069; AAA73878.1; -.
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Primates;
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100.0%;
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0; Mismatches
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                              M., Bailey J.,
Baldini A., L
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                                                                                                                                  Diptera;
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a; Brachycera;
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Lindsay E.A.,
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                                    ., Gocayne J.D., R.A., Galle R.F., M., Henderson S.N.
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                            Henderson
Chen L.X.,
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                                                                                                                                               Insecta;
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RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA Cherry D., Ded C., Deng T., Davies M., Dietz S.M.,
RA Chodek A., Gong F., Correll J.H., Gu Z., Galbart W.M., Glasser K.,
RA Glodek A., Gong F., Correll J.H., Gu Z., Galbart W.M., Glasser K.,
RA Hostin D., Houston K.A., Howland T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.H., Ibegwam C.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
RA Mcrkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Mcrkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Munt S.M., Pittman G.S., Pan S., Pollard J., Purl V., Reese M.G.,
RA Shue B.C., Siden K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
RA Shue B.C., Siden K.A., Stapleton M., Strong R., Smith T.,
RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
RA Ye J., Yeh R.-F., Zaveri J.S., Stapleton M., Strong R., Sun E.,
RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q.A.,
RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
RA Yellone S.M., Rubin G.M., Weinstock G.M., Weissenbach J.,
RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
RA Yellone S.M., Rubin G.M., Weinstock G.M., Weissenbach J.,
RA Yellone S.M., Rubin G.M., Weinstock G.M., Weissenbach J.,
RA Yellone S.M., Rubin G.M., Weinstock G.M., Weinschach J.,
RA Yellone S.M., Rubin G.M., Weinschach S., Zhu X., Smith H.O.,
RA Yellone S.M., Rubin G.M., Venter J.C.;
RA Yellone S.M., Stapleton M., Stong G., Zhao Q., Zheng L.,
RA Yellone S.M., Stong M., Shang G., Z
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Best Local
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americana.";

Regul. Pept. 71:199-205(1997).
-I- FUNCTION: MEDIATES VISCERAL MUSCLE CONTRACTILE ACTIVITY (MYOTROPIC ACTIVITY).
-I- SIMILARITY: BELONGS TO THE KININ FAMILY.
                                                                                                                         SEQUENCE, AND FUNCTION.
TISSUE-CORPORA CARDIACA:
TISSUE-CORPORA CARDIACA:
MEDLINE-98010462; PubMed-9350979;
Predel R., Kellner R., Rapus J., Penzlin H., Gaede G.;
"Isolation and structural elucidation of eight kinins from the
                                                                                                                                                                                                                                                                            Periplaneta americana (American cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blabattoidea; Blattidae; Periplaneta.
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01-MAR-2001
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                                                                                                          retrocerebral complex
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le C., Baxter E.G.,
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G., Helt G., Nelson C.
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hmann W.,
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RESULT
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MOD_RES
SEQUENCE 8 A
                                                                                                KININ-3 (PEA-K-3).

Periplaneta americana (American cockr
Eukaryota; Metazoa; Arthropoda; Trach
Pterygota; Neoptera; Orthopteroidea;
Blattoidea; Blattidae; Periplaneta.
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P82687; PRICEMBLIEL 16,
01-MAR-2001 (TIEMBLIEL 16,
01-MAR-2001 (TIEMBLIEL 16,
01-MAR-2001 (TIEMBLIEL 16,
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"Isolation and structural elucidation of eight kinins from the retrocerebral complex of the American cockroach, Periplaneta americana.";
Regul. Pept. 71:199-205(1997).
-!- FUNCTION: MEDIATES VISCERAL MUSCLE CONTRACTILE ACTIVITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blattoidea; Blattidae; Periplaneta.
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01-MAR-2001 (TrEMBLrel.
01-MAR-2001 (TrEMBLrel.
Predel R., Kellner R., Rapus J., Penzlin H., Gaede G.; "Isolation and structural elucidation of eight kinins retrocerebral complex of the American cockroach, Perip
                                   MEDLINE=98010462; PubMed=9350979;
                                                SEQUENCE, AND FUNCTION. TISSUE-CORPORA CARDIACA;
                                                                                    NCBI_TaxID=6978;
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MOD_RES
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SIMILARITY: BELONGS TO THE KININ FAMILY
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Best Local
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SEQUENCE
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01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
KININ-4 (PEA-K-4)
Periplaneta americana (American cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blattoidea; Blattidae; Periplaneta.
NCBI-TaxID-6978;
                                                         Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta; Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria; Plattoidea; Blattidae; Periplaneta.
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01-MAR-2001 (TrEMBLrel. 16, Last seq
01-MAR-2001 (TrEMBLrel. 16, Last ann
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Regul. Pept. 71:199-205(1997).
-!- FUNCTION: MEDIATES VISCERAL MUSCLE CONTRACTILE ACTIVITY
(MYOTROPIC ACTIVITY).
-!- SIMILARITY: BELONGS TO THE KININ FAMILY.
  SEQUENCE, AND FUNCTION
                                                                                                                                                                      KININ-5 (PEA-K-5).
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Predel R., Kellner R., Rapus J., Penzlin H., Gaede G.;
"Isolation and structural elucidation of eight kinins from tl
retrocerebral complex of the American cockroach, Periplaneta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE, AND FUNCTION.
TISSUE=CORPORA CARDIACA;
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MOD_RES 8 8
SEQUENCE 8 AA; 909 MW
                                               NCBI_TaxID=6978;
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FUNCTION: MEDIATES VISCERAL MUSCLE CONTRACTILE ACTIVITY (MYOTROPIC ACTIVITY).
SIMILARITY: BELONGS TO THE KININ FAMILY.
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909 MW; DC6365B449D5A76A CRC64;
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100.0%; Pr/
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Pred. No.
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Pred. No.
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01-JUL-1997 (TrEMBLrel. 04, Last sequence update)
01-MAY-1999 (TrEMBLrel. 10, Last annotation update)
PRO ALPHA 1 TYPE III COLLAGEN PROTEIN (FRAGMENT).
Oryctolagus cuniculus (Rabbit).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                         01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAY-2000 (TrEMBLrel. 13, Last annotation update)
INSULIN-LIKE GROWTH FACTOR-BINDING PROTEIN-6, IGF
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SEQUENCE
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                                                                                         Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                    Sus sp.
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EMBL; S83371; AAD14433.1; -.
NON TER 1
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Mammalia; Eutheria; Lagomorpha;
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-!- FUNCTION: MEDIATES VISCERAL MUSCLE CONTRACTILE ACTIVITY (MYOTROPIC ACTIVITY).
-!- SIMILARITY: BELONGS TO THE KININ FAMILY.
    MEDLINE=92049376;
                           SEQUENCE
                                                                  NCBI_TaxID=9826;
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STRAIN-F.I.FRGM;
STRAIN-F.C. Chen H.T., Alexa
Mod. Immunol. 0:0-0(0).
EMBL; U62585; AAB18735.1;
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01-FEB-1997
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GERMLINE DH
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Q95213;
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Mol. Endocrinol.
SEQUENCE 8 AA;
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-- SUBCELLULAR LOCATION: MITOCHONDRIAL.

Ribosomal protein; Mitochondrion.
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Bukaryota; Mctazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea;

Bovidae; Bovinae; Bos.

NCBI_TaxID=9913;
MHC.
                                                                                                                                                            Oryctolagus cuniculus (Rabbit).
Eukaryota; Metazoa; Chordata; Craniata;
Mammalla; Eutherla; Lagomorpha; Leporida
NCBI_TaxID:9986;
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(TrEMBLrel.)
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llarity 100.0%;
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d molecular cloning of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5:938-948(1991).
850 MW; 9FB2CEA37EA7687D
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                                                                                Alexander
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Pred. No. 4.7
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Last annotation update)
PROTEIN S34 (MRP-S34) (
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Pred. No.
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insulin-like
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4.7e+05;
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bosome. Identification
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Matches 1
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Q9T4Y2;
Q1-MAY-2000
01-MAY-2000
01-MAY-2000
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NON_TER 8
SEQUENCE 8 AA
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Q1-MAY-2000 (TrEMBLrel. 13, Created)
Q1-MAY-2000 (TrEMBLrel. 13, Last sequence update)
Q1-MAY-2000 (TrEMBLrel. 13, Last annotation update)
CYTOCHROME C OXIDASE SUBUNIT I (FRAGMENT).
Terrantos dolichopterus.
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SEQUENCE
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                                                          SEQUENCE FROM N.A.

MEDILINE-89354669; PubMed-2766382;

Jacobs H.T., Asakawa S., Araki T., Miura

"Conserved tRNA gene cluster in starfish

Curr. Genet. 15:193-206(1989).

EMBL; X16886; CAA34767.1; -.
                                                                                                                                                                                                           Eukaryota; Metazoa; Echinodermata; Asteroidea; Valvatacea; Valvatida; NCBI_TaxID=7594;
                                                                                                                                                                                                                                                                                                                        01-MAY-2000 (TrEMBLrel. 13, 01-MAY-2000 (TrEMBLrel. 13, 01-MAY-2000 (TrEMBLrel. 13, COI GENE PRODUCT (FRAGMENT)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (Atherinomorpha, Cyprinodontiformes): biogeographic perspective."; Evolution 53:1200-1216(1999).
EMBL; AF092421; AAF03041.1; -.
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                                           Mitochondrion.
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Pred. No.
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Pred. No. 4.7e+05,
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Asterinidae; F
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4.7e+05;
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                                                                                                        K., Smith M.J., Wata
mitochondrial DNA.";
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                                                                                                                              Watanabe
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Дb
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Search completed: January 14, 2002, 07:53:45 Job time: 725 sec
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 protein search, using
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Gapop 10.0 , Gapext 0.
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/SIDS2/gcgdata/geneseq/geneseqp/AA1981.DAT:*
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first 50 summaries
 AAB06419
AAB06764
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7.357 Million cell updates/sec
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Claudin-1 cell adh
Claudin-1 cyclic c
Claudin-6/9 cyclic
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Claudin-2 cell adh
Claudin-2 cyclic c
Sequence of a cycl
Claudin-1 cyclic c
Claudin-1 cyclic c
Claudin-7 cell adh
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ALIGNMENTS

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RESULT
AAB06419
Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection.
      Blaschuck OW,
                                       03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                Claudin-1 cell adhesion recognition sequence SEQ ID
                                                                                                                                                                                                  AAB06419;
                                                                                                                                                                                                                AAB06419 standard; peptide;
                                                                03-NOV-1999;
                                                                                11-MAY-2000.
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                                                                                                                Mammalia.
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                      (ADHE-) ADHEREX TECHNOLOGIES INC.
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                                       98US-0185908
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      Symonds JM,
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The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
                                                                                                                           Claim 43; Page 97; 121pp; English.
                                                                                                                                                                                                                      WPI;
                                                                                                                                                                      Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system
                                                                                                                                                                                                                                                    Blaschuck OW,
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30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claudin-1 modulating agent;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mammalia
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sequence; autoimmune disease; inflammatory disease;
                                                                                                                                                                                                                      2000-365610/31.
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Pred. No. 4.3e+05;
1; Mismatches 3
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                                                                                                       The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-6 and claudin-9 groups of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site.
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30-MAR-1999;
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                                                                                    Sequence
                                                                                                                                                                                                                       Claim 70; Page 103; 121pp; English.
                                                                                                                                                                                                                                                and across the skin
                                                                                                                                                                                                                                                                     Antibody modulation of claudin-mediated cell adhesion for increasing
                                                                                                                                                                                                                                                                                               WPI; 2000-365610/31
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cell adhesion recognition sequence; CAR sequence; inflammatory disease; cancer; graft rejection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claudin-6 modulating agent; claudin-9 modulating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claudin-6/9 cell adhesion recognition
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                                    75.0%;
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                                    Score 27; DB 21;
Pred. No. 4.3e+05;
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Pred.
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RESULT 4
AAB06814
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Query Match
Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claudin-6 modulating agent; claudin-9 modulating agent; cell adhesion recognition sequence; CAR sequence; autoi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claudin-6/9 cyclic cell adhesion recognition sequence SEQ
                                                                                                                                                                                                                                                                                                                                                       Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system
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30-MAR-1999;
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     Claudin modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cance graft rejection.
                                                                                                                                                                                                                                                                                                                               Claim 73; Page 104; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2000-365610/31.
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                                                                                                                                                                                                                                                                                                                                                                                                                       (ADHE-) ADHEREX TECHNOLOGIES INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        inflammatory disease; cancer; graft rejection; cyclic
                                         Claudin cell adhesion recognition modulating sequence SEQ ID NO:
                                                           05-OCT-2000
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                                                                             AAB06916;
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RESULT
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                                                                                                                    Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sysand across the skin -  \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{
                                                                                                                                                                                                                                                                                                                                            Blaschuck OW,
                                                              Claim 49;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             03-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO200026360-A1
                                                                                                                                                                                                                                                                                                                                                                                                          (ADHE-) ADHEREX TECHNOLOGIES INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mammalia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claudin-2 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claudin-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            28-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAB06574 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-2 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity 37. 3; Conservative
                                                      Page 98; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cyclic
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                                                                                                                                                                                                                                                                                                                                        Symonds JM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                98US-0185908.
99US-0282029.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cell adhesion recognition sequence SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            72.2%;
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Pred. No. 4.3e
2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gour BJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 21;
4.3e+05;
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The present

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relates to the

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RESULT
AAP30170
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Best Local
                                         presence a base and a cyclising agent. The cyclisation occurs with more rapid reaction kinetics than are observed in many peptide cyclisations. So the reaction can be carried out in a much more concd. state (10-100 times more concd.) than is used in normal cyclisations. Therefore the reaction vol. used for a given amt. of the linear peptides used in the prepn. of cyclic AAP30170 is greatly the linear peptides used in the prepn. of cyclic AAP30170 is greatly the linear peptides used in the prepn. of cyclic AAP30170 is greatly the linear peptides used in the prepn. of cyclic AAP30170 is greatly the linear peptides used in the prepn. of cyclic AAP30170 is greatly the linear peptides used in the prepn. of cyclic AAP30170 is greatly the linear peptides used in the prepn. of cyclic AAP30170 is greatly the linear peptides used in the prepn.
                                                                                                                                                                                                                                                 Cyclic hexa:peptide somatostatin analogue prepn. of linear hexa:peptide in soln. in DMF or DMSO in base and cyclising agent
                                                                                                                                               The inventors claim a method for the preparation of the cyclic peptide of the sequence in AAP30170. The method is the cyclisation of a linear permutation of AAP30170 in soln. in DMF or DMSO in the
                                                                                                                                                                                                                   Claim 1; Page 1; 25pp; English.
                                                                                                                                                                                                                                                                                                                           WPI; 1983-10097K/05
                                                                                                                                                                                                                                                                                                                                                                                                                                 15-JUL-1981;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cell adhesion modulators. The claudin-2 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cyclic peptide
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                                                                                                                                                                                                                                                                                                                                                                                           (MERI ) MERCK & CO INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    insulin; acromegaly therapy; diabetes; diabetic retinopathy;
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                                                                                                                                                                                                                                                                                                                           (10097K).
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37.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      glucagon release inhibitor; growth hormone;
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NO.
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4.3e+05;
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n presence of
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Matches 3
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Best Local Similarity
Matches 4; Conserv
                                                                                                                                                                                    The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site.
                                                                                                                                                                                                                                                                                                              03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     graft rejection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claudin-1 modulating agent; cell adhesion recognition sequence;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claudin-1 cell adhesion recognition sequence SEQ ID NO: 485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAB06426;
         AAB06512 standard;
                                                                                                                                                                                                                                                                                          Claim 39; Page 96; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                             WPI; 2000-365610/31
                                                                                                                                                                                                                                                                                                                                                                                  Blaschuck OW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                               03-NOV-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAB06426 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                      (ADHE-) ADHEREX TECHNOLOGIES INC
                                                                                                                                                                  Sequence
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1 wkvfay 6
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                                                               1 wriysyag
                                                                                    1 wkxxayxg 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                           Similarity
3; Conserv
                                                                                                                                                                  8 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                         Conservative
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                                                                                                                                                                                                                                                                                                                                                                                 Symonds JM,
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99US-0282029.
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         peptide; 8 AA
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                                                                                                                     69.4%;
37.5%;
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                                                                                                         Score 25; DB 21;
Pred. No. 4.3e+05;
2; Mismatches 3
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Pred. No. 4.3e+05;
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                                                                                                                                 DB 21; Length 8
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AAB06823
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Best Local Similarity
Matches 3; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection; cyclic.
                                                                                                                                                                                                                                                                                                                                                                                The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autolmmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 43; Page 97; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Blaschuck
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30-MAR-1999;
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                                                                   Claudin-7 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                       Claudin-7 cell adhesion recognition sequence
                                                                                                                                                                                                                                                                                                                                                 Sequence
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                                                        graft rejection.
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                                                                                                                                                      AAB06823;
                                                                                                                                                                             AAB06823 standard; peptide;
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          WO200026360-A1
                                   Mammalia
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                                                                                                                                                                                                                                                               1 wkxxayxg 8
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                                                                                                                               (first entry)
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99US-0282029
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37.5%;
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Pred. No. 4.3e+05;
2; Mismatches
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RESULT :
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                                                                                                 03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                          Claudin-7 cyclic cell adhesion recognition sequence SEQ ID NO: 447.
Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system
                                                       Blaschuck OW,
                                                                                                                                 03-NOV-1999;
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                                                                                                                                                                                                  Mammalia
                                                                                                                                                                                                                     graft
                                                                                                                                                                                                                                           Claudin-7 modulating agent;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-7 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
                                  WPI; 2000-365610/31.
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                                                                                                                                                                                                                                                                                                                               AAB06876 standard; peptide;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Blaschuck
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30-MAR-1999;
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                                                                                                                                                                                                                    sequence; autoimmune disease; inflammatory disease; ft rejection; cyclic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8 AA;
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                                                                                                                                                                                                                                                                                     (first entry)
                                                       Symonds
                                                                                                 98US-0185908
99US-0282029
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99US-0282029.
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                                                       Gour BJ
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4.3e+05;
3;
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AAB06917
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Best Local s
Matches 3
                                                                                           Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system
                                                                                                                                                                                                       03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-7 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                                          Claim
                                                                                                                                 WPI; 2000-365610/31.
                                                                                                                                                        Blaschuck OW,
                                                                                                                                                                                                                                           03-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                          Claudin-7 modulating agent; cell adhesion recognition so CAR sequence; autoimmune disease; inflammatory disease;
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                                                                                                                                                                                (ADHE-) ADHEREX TECHNOLOGIES INC
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                                                                                                                                                                                                                                                                                                                                                                                         Synthetic
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les 3; Conserv
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                                                       Page 104; 121pp; English.
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99US-0282029.
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37.5%;
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Pred. No. 4.3e
2; Mismatches
                                                                                                                                                       Gour BJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                     cell adhesion recognition sequence;
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4.3e+05;
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The present sequence is a peptide which can be used in a claudin-mediated cell adhesion modulator. The claudin group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and this peptide

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Best Local Similarity 37.5
Matches 3; Conservative
                                                                                                           Matches
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Best Local :
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                                                                                                                                                                                                                                                                                                                           The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-3 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases. Inflammatory diseases and cancer, and ald wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin -  \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac
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30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claudin-3 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAB06583;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 52; Page 99; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2000-365610/31.
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                                                                                                                                                                                                                                                                                                    the desired target site.
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wrvsafig
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3; Conserv
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                                                                                                           Conservative
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99US-0282029
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37.58;
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                                                                                                                                     Score 24; DB 21;
Pred. No. 4.3e+05;
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                                                                                                              Mismatches
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4.3e+05;
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                                                                                                           Gaps
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-3 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mammalia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                graft rejection; cyclic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claudin-3 modulating agent;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claudin-3 cyclic cell adhesion recognition sequence SEQ ID NO:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          vasopermiability, for and across the skin
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30-MAR-1999;
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Claudin-4 modulating agent; CAR sequence; autoimmune dis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 55; Page 100; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2000-365610/31
                                                       Claudin-4 cell adhesion recognition sequence SEQ ID NO: 50
                                                                                                                                        AAB06645;
                                                                                                                                                                                AAB06645 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
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                                                                                                 28-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    conformation.
                                                                                                                                                                                                                                                                                                                                                           Local Similarity 37.1 nes 3; Conservative
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| wrvsafig
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99US-0282029
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                                                                                                                                                                                                                                                                                                                                                                                66.7%;
37.5%;
  disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cell adhesion recognition sequence;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gour
  cell adhesion recognition sequence;
sease; inflammatory disease; cancer;
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                                                                                                                                                                                                                                                                                                                                                           Score 24; DB
Pred. No. 4.3e
2; Mismatches
                                                                                                                                                                                                                                                                                                                                                             2
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                                                                                                                                                                                                                                                                                                                                                                              DB 21;
4.3e+05;
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                                                                                                                                                                                                                                                                                                                                                                                                   Length 8;
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RESULT 1
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Best Local
                                                                                                                                                        CAR sequence; au graft rejection;
                               03-NOV-1998;
30-MAR-1999;
                                                                03-NOV-1999;
                                                                                       11-MAY-2000
                                                                                                             WO200026360-A1
                                                                                                                                    Mammalia
                                                                                                                                                                              Claudin-4 modulating agent; cell adhesion recognition sequence;
                                                                                                                                                                                                  Claudin-4 cyclic cell adhesion recognition sequence SEQ ID NO: 216.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-4 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
                                                                                                                                                                                                                             28-SEP-2000
                                                                                                                                                                                                                                                                        AAB06698 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 58; Page 100; 121pp; English.
       (ADHE-) ADHEREX
                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Blaschuck OW,
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30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          to the desired target site.
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mes 3; Conser
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                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                           (first entry)
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                                                                                                                                                                  autoimmune disease; inflammatory disease;
                            98US-0185908
99US-0282029
                                                                99WO-CA01029
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99US-0282029
       TECHNOLOGIES
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                                                                                                                                                          cyclic
                                                                                                                                                                                                                                                                                                                                                                                       66.7%;
37.5%;
                                                                                                                                                                                                                                                                                                                                                                            Score 24; DB Pred. No. 4.3e 2; Mismatches
                                                                                                                                                                                                                                                                         8
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                                                                                                                                                                                                                                                                                                                                                                                                   DВ
                                                                                                                                                                                                                                                                                                                                                                                       3e+05;
                                                                                                                                                                                                                                                                                                                                                                                                  Length 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   facilitate drug delivery
                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                   cancer;
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RESULT
AAB06417
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Best Local (
                                                                                     Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys and across the skin - \,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-4 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and ald wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic conformation.
                                                             Claim 39; Page 95;
                                                                                                                                                                  Blaschuck OW,
                                                                                                                                                                                                                  03-NOV-1998;
30-MAR-1999;
                                                                                                                                         WPI; 2000-365610/31.
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                                                                                                                                                                                                                                                                                                                                  Mammalia
                                                                                                                                                                                                                                                                                                                                                          graft rejection
                                                                                                                                                                                                                                                                                                                                                                    Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                         Claudin-1 cell adhesion recognition sequence SEQ ID NO: 32.
                                                                                                                                                                                        (ADHE-) ADHEREX TECHNOLOGIES INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin - \,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          conformation.
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nes 3; Conser
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                                                                                                                                                                  Symonds
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99US-0282029.
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                                                             121pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    peptide;
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37.5%;
                                                                                                                                                                  M,
                                                             English.
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Pred. No. 4.3e+05;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
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                                                                                                  system
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The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some

cell adhesion

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                                                                                                      The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and ald wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site.
                                                                                                                                                                                                                                                                                                                                                                                                                                     graft rejection;
                                                                                                                                                                                                                                                                                                                                                                                                                                             Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claudin-1 cyclic cell adhesion recognition sequence SEQ ID NO: 108
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                                                                                                                                                                                                                              Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system
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30-MAR-1999;
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99US-0282029.
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Pred. No. 4.3e+05;
Pred. No. 4.3e+05;
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2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys and across the skin - \,
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Claudin-6 modulating agent; claudin-9 modulating cell adhesion recognition sequence; CAR sequence;
                                                       Claudin-6/9 cyclic cell adhesion recognition sequence SEQ
                                                                                                                                     AAB06812;
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                       agent;
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30-MAR-1999;
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(ADHE-) ADHEREX TECHNOLOGIES
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sease; inflammatory disease;
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Pred. No. 4.3e
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                                                           Claim 43; Page 97; 121pp;
                                                                                                                                    WPI; 2000-365610/31
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30-MAR-1999;
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                                                           English.
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4.3e+05;
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The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some

adhesion occurs at abnormal

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and these

peptides

situations,

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                                                                                                                                                                                                                                                                                                                                                                                                           Claudin-6 modulating agent; claudin-9 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection.
                                                                                                       The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-6 and claudin-9 groups of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to
                                                                                                                                                                                                      03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                   03-NOV-1999;
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                                                                                                                                                                                    Claim 70; Page 103; 121pp; English.
                                                                                                                                                                                                                                             WPI; 2000-365610/31
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                                                                                              facilitate drug delivery to the desired target site.
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99US-0282029.
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Pred. No. 4.3e+05;
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Search completed: January 14, Job time: 427 sec
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Best Local Similarity
Matches 3; Conserv
                                                                                                                                                                                                                                                                                                                            The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-6 and claudin-9 groups of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and ald wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic conformation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claudin-6 modulating agent; claudin-9 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune inflammatory disease; cancer; graft rejection; cyclic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 73; Page 104; 121pp; English.
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30-MAR-1999;
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     Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed.
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Sequence 7, Appli	Sequence 1, Appli	Sequence 3, Appli	Sequence 7, Appli	Sequence 7, Appli	Sequence 3, Appli	Sequence 405, App	Sequence 37, Appl	Sequence 34, Appl	Sequence 107, App		•	•		Sequence 86, Appl						-	Sequence 89, Appl	

ALIGNMENTS

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APPLICATION: 14, 155%
FILING DATE: NOV. 14, 155%
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Malinoski, Lynn
REGISTRATION UNMBER: 38,788
REFERENCE/DOCKET NUMBER: UPN-2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215)568-3100
TELEFAX: (215)568-3100
TELEFAX: (215)568-3439
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 6 maino acids
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US-08-338-890B-2
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Patent No. 5700905
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWAKE: WORDPERFECT SAVED AS ASC:
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/338,890B
FILING DATE: NOV. 14, 1994
CIRCURSTELLATION. 520
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Hirschmann, Ralph
APPLICANT: Spanevello, Rolando
APPLICANT: Nuth, Ruth
TITLE OF INVENTION: Synthetic Somatostatin Mimics
NUMBER OF SEQUENCES: 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz
STREET: One Liberty Place, 46th Floor
                                                                                                                             FEATURE:
                                                                                                                                                    MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STREET: One Liberty
CITY: Philadelphia
STATE: PA
NAME/KEY: Modified-site
LOCATION: 2-3, Xaa at Line 72
OTHER INFORMATION: /label-protecting1
OTHER INFORMATION: /notes-"an amine protecting group or a solid
OTHER INFORMATION: support can be present or absent on the prim
                                                                                                                                                                           TYPE: amino acid TOPOLOGY: circular
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                                              Query Match
Best Local Similarity
                                 Matches
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GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                  TELEPHONE: (215)568-3100
TELEFAX: (215)568-3439
INFORMATION FOR SEQ ID NO: 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE/DOCKET NUMBER: UP TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATTORNEY/AGENT INFORMATION:
NAME: Malinoski, Lynn
REGISTRATION NUMBER: 38,7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                         FEATURE:
                                                                                                                                                                                                                                                                                                                                  MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock, Washburn, Kurtz,
STREET: One Liberty Place, 46th Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Hirsc
APPLICANT: Spane
APPLICANT: Nutt,
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OTHER INFORMATION:
OTHER INFORMATION:
OTHER INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION:
                                                                                                                                                                          NAME/KEY:
LOCATION:
                                                                                                                        LOCATION: 6, Xaa at Line 100
OTHER INFORMATION: /label=protecting2
OTHER INFORMATION: /note- "a carboxyl protecting group can be
OTHER INFORMATION: present or absent on the hydroxyl group", Xaa=Orn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/08/:
FILING DATE: NOV. 14, 1994
CLASSIFICATION: 530
                                                                                                                                                                                                                                                                                    NAME/KEY: Modified-site
                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDPERFECT SAVED AS ASCII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                 LENGTH:
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                                                                                                                                                                                                                                                                                                                                                                  amino acid
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PA
                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          USA
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                                                                                                                                                                                                                                                                                                                                                     linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                           Modified-site
                                                                                                                                                                                                                                                                                                                                  peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ruth
                                            55.6%;
66.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic Somatostatin Mimics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           55.6%;
                                                                                                                                                                                                                                    /label=protecting1
/note="an amine protecting group or a solid support can be present or absent on the primary
                                                                                                                                                                                                                       amino group", Xaa: =Orn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        amino group", Xaa=Orn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US/08/338,890B
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                                              Score 20; DB 1;
Pred. No. 1.6e+05;
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Pred.
                               Mismatches
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No.
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                                                           Length 6;
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                               Indels
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                            Gaps
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RESULT 4
US-08-340-208B-3
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US-08-340-208B-2
                                                                                                             Sequence 3, Application US/08340208B Patent No. 5965694
                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 2, Application US/08340208B Patent No. 5965694
                                                                                             GENERAL INFORMATION:
     APPLICANT: Hirschmann
APPLICANT: Spanevello
TITLE OF INVENTION: M
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: (215)568-343 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
APPLICANT: Hirsch
APPLICANT: Spanev
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WOODDERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MOLECULE TYPE: FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
LENGTH: 6 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE/DOCKET NUMBER: UF TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Malinoski, Lynn
REGISTRATION NUMBER: 38,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Spanevello, TITLE OF INVENTION: SOI TITLE OF INVENTION: Mei
CORRESPONDENCE ADDRESS:
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CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                          OTHER INFORMATION: OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                         LOCATION: 2-3, Xaa OTHER INFORMATION: OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: Modified-site
LOCATION: 2-3, Xaa at Li
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: FILING DATE: NOV.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STREET: One Libert CITY: Philadelphia
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                                                                                                                                                                                                              1 WKXFPY
                                                                                                                                                                                                                                            1 wkxxay
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                                                           Hirschmann, Ralph
Spanevello, Rolando
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(215)568-3439
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                                                                                                                                                                                                                                                                             Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         peptide
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NOV. 16, 1994
                                                                                                                                                                                                                                                                                                                                                                     Xaa at Line 72

ON: /label-protecting1

ON: /notes-"an amine protecting group or a solid on: support can be present or absent on the prime on: amino group", Xaa=Orn
                            Somatostatin Mimics And Synthetic Methods Therefor
                                                                                                                                                                                                                                                                                            55.6%;
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Somatostatin Mimics And
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         38,788
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Pred. No. 1.6e+05;
                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mackiewicz & No.
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                                                                                                                                                                                                                                                                                                           Length 6;
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                                                                                                                                                                                                                                                                         Sequence 2, Application Patent No. 6001960 GENERAL INFORMATION:
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: (215)568-3439
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATTORNEY/AGENT INFORMATION:
NAME: MALINOSKI, Lynn
REGISTRATION UMBER: 38,788
REFERENCE/DOCKET NUMBER: UPN-2041
TELECOMMUNICATION INFORMATION:
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
COMPUTER: IBM PC com
                                                                                                                      TITLE OF INVENTION: Synthetic Somatostatin Mimics
NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz and No.
STREET: One Liberty Place, 46th Floor
                                                                                                                                                                                                                   APPLICANT: Hirschmann, Ralph
APPLICANT: Spanevello, Rolando
APPLICANT: Nutt, Ruth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 6
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURE:
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OTHER INFORMATION: /note-ran mine present or absent
OTHER INFORMATION: support can be present or absent
OTHER INFORMATION: amino group", Xaa: -Orn
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OTHER INFORMATION:
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FILING DATE: NOV. 16, 1994
CLASSIFICATION:
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STREET: One Liberty Place, 46th Floor
CITY: Philadelphia
                                                                                         STREET: One Liberty CITY: Philadelphia STATE: PA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
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                                                      COUNTRY: UZIP: 19103
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                                                                       USA
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E: Floppy disk
IBM PC compatible
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
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ches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 6;
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on the primary
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US-08-997-263-3
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
APPLICANT: Hirsch
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REGISTRATION NUMBER: 38,788
REFERENCE/DOCKET NUMBER: UPN-2040
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215)568-3100
TELEFAX: (215)568-3439
INFORMATION FOR SEQ ID NO: 2:
          CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/
FILING DATE: NOV. 14, 1994
ATTORNEY/AGENT INFORMATION:
NAME: MAlinoski, Lynn
NAME: Malinoski, Lynn
                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/MINDOWS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS: LENGTH: 6 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: NOV. 14, 19
ATTORNEY/AGENT INFORMATION:
NAME: Malinoski, Lynn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
APPLICATION NUMBER: U
FILING DATE: NOV. 14,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
                                                                                                                                                    SOFTWARE: WORDDERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/997,263
                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz and No. 6001960ris
STREET: One Liberty Place, 46th Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY: modified-site
LOCATION: 2-3, Xaa at Line 72
OTHER INFORMATION: /label-protecting1
OTHER INFORMATION: /notes-"an amine protecting group or a solid
OTHER INFORMATION: support can be present or absent on the primary
OTHER INFORMATION: amino group", Xaa=Orn
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE:
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                                                                                                                                         FILING DATE:
                                                                                                                                                                                                                                                                                                                         COUNTRY:
                                                                                                                                                                                                                                                                                                                                              STATE:
                                                                                                                                                                                                                                                                                                                                                               CITY: Philadelphia
REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 wkxxay 6
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Pred. No. 1.6e+05;
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Best Local Similarity
Matches. 4; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE/DOCKET NUMBER: UPN-
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215)568-3100
TELEFAX: (215)568-3439
                                                          TELEPHONE: (215)568-3100
TELEFAX: (215)568-3439
INFORMATION FOR SEQ ID NO: 4:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                        SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*) CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                            SEQUENCE CHARACTERISTICS:
                                                                                                           TELECOMMUNICATION INFORMATION:
                                                                                                                                                                       ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                   ADDRESSEE: Woodcock,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FITLE OF INVENTION:
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                                                                                                                          REGISTRATION NUMBER: 38,788
REFERENCE/DOCKET NUMBER: UPN-2040
                                                                                                                                                                                         FILING DATE: NO CLASSIFICATION:
                                                                                                                                                                                                  APPLICATION NUMBER: US/US/
                                                                                                                                                                                                                                                                      COMPUTER: IBM PC compatible OPERATING SYSTEM: MS-DOS/WINDOWS
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OTHER INFORMATION:
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TYPE: amino acid
TOPOLOGY: linear
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LOCATION:
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TOPOLOGY: linear
                            LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY: Modified-site LOCATION: 1-3
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Spanevello, Rolando
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/note= "a carboxyl protecting group can be
present or absent on the hydroxyl group", Xaa=Orn
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/note="an amine protecting group or a solid support can be present or absent on the primary amino group", xaa: =Orn
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Pred. No.
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Best Local Similarity
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                                                                                                            TELEFAX: (215)568-3439 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compati
                                                                                                                                                       REGISTRATION NUMBER: 38,788
REFERENCE/DOCKET NUMBER: UP
TELECOMMUNICATION INFORMATION:
                                                                                             SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                       CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Malinoski, Lynn
                                                                                                                                                                                                                                                                                    SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
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                            MOLECULE TYPE:
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APPLICATION NUMBER: US/UB/
FILING DATE: NOV. 14, 1994
FILING DATEON: 530
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                                                                                                                                                                                                                                                                                                                COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WINDOWS
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CITY: Philadelphia
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LOCATION:
NAME/KEY:
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OTHER INFORMATION:
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Modified-site
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50.0%;
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/notes= "a hydroxyl protecting group can
present or absent on the hydroxyl group"
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/note= "a methyl group is present on the amino
group"
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Pred. No. 1.6e+05;
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Best Local 9
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                                                                                                                                   TELECOMMUNICATION INFORMATION:
TELEPHONE: (215)568-3100
TELEPAX: (215)568-3439
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COmpatible
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
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ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz & No. STREET: One Liberty Place, 46th Floor
                                                                                                                                                                                                                                                            CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Hirschmann, Ralph
APPLICANT: Spanevello, Rolando
TITLE OF INVENTION: Somatostatin Mimics And Synthetic
TITLE OF INVENTION: Methods Therefor
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                                                             MOLECULE TYPE: peptide FEATURE:
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COTHER INFORMATION:
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OTHER INFORMATION:
                                                                                       TYPE: amino acid
TOPOLOGY: linear
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les 3; Conserv
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                                                                                                                                                                                                                  REGISTRATION NUMBER: 38
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: FILING DATE: NOV. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY:
 OTHER INFORMATION:
                                                                                                                                                                                                                                             NAME: Malinoski, Lynn
                             NAME/KEY: Modified-site LOCATION: 1,2,4
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/note- "a
group"
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/noteo "a hydroxyl protecting group can be
present or absent on the hydroxyl group"
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/note: "an amine protecting group or a solid support can be present or absent on the primary
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 /label
/note- "
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Pred. No. 1.6e+05;
an amine protecting
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"a methyl group is
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GENERAL INFORMATION:
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Best Local
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                                                                                                                                                                                                             TELEFAX: (215)568-3439
INFORMATION FOR SEQ ID NO: 5:
                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                             TELECOMMUNICATION INFORMATION: TELEPHONE: (215)568-3100
                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
NAME: Malinoski, Lynn
REGISTRATION UNMBER: 38,7
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock, Washburn, Kurtz,
STREET: One Liberty Place, 46th Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Spanevello, Rolando
TITLE OF INVENTION: Somatostatin Mimics And Synthetic
TITLE OF INVENTION: Methods Therefor
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FEATURE
             OTHER INFORMATION:
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                                                                                                                                           TYPE: amino acid
TOPOLOGY: circul
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STREET: One Liberty
CITY: Philadelphia
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                                                                           NAME/KEY: Modified-site LOCATION: 2, 4
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50.0%;
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/notes= "a hydroxyl protecting group can present or absent on the hydroxyl group"
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          /label= protecting1
/note= "an amine protecting support can be present or amino group"
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Pred. No. 1.6e+05
0; Mismatches
                             protecting group resent or absent o
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RESULT 11
US-08-997-263-4
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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ZIP: 19103

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

MEDIUM TYPE: IBM PC compatible

TYPEM: MS-DOS/WINDOWS

TYPEM: MS-DOS/WINDOWS

TYPEM: MS-DOS/WINDOWS
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APPLICANT:
APPLICANT:
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OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDDERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
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REFERENCE/DOCKET NUMBER: UP
TELECOMMUNICATION INFORMATION:
FEATURE
                                                                                                                  FEATURE:
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CORRESPONDENCE ADDRESS:
                            LOCATION: 1,2,4
OTHER INFORMATION:
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                 OTHER INFORMATION:
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CITY: Philadelphia
STATE: PA
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LOCATION:
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                                                                                                                                                                                                                                                                                                             Malinoski, Lynn
                                                                                                                                                            amino acid
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                                                                                                                                                                                                                                              (215)568-3100
                                                                                                                              peptide
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50.0%;
                         /label= protecting1
/note= "an amine protecting group or a solid support can be present or absent on the prime
             amino group"
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present or absent on the hydroxyl group"
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/note= "a hydroxyl
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Pred. No. 1.6e
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US-08-997-263-4
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Best Local Similarity
Thehes 3; Conserv
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                                                                                                                                                                                TELEPHONE: (215)568-3100
TELEFAX: (215)568-3439
INFORMATION FOR SEQ ID NO: 5
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 19103
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                              REFERENCE/DOCKET NUMBER: UF
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US 0 FILING DATE: NOV. 14, 19 ATTORNEY/AGENT INFORMATION: NAME: Malinoski, Lynn
                                                                                                                                                                                                                                                                                                                                                                                                                  OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
                                                                                                          FEATURE:
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FEATURE:
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              OTHER
OTHER
                                                                         NAME/KEY:
LOCATION:
                                           OTHER INFORMATION: OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STREET: One Liberty Place, 46th Floor CITY: Philadelphia
STATE: PA
                                                                                                                                       TOPOLOGY:
                                                                                                                                                       TYPE:
                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE:
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              INFORMATION:
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                                                                                        Modified-site
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50.0%;
         /label= protecting1
/note= "an amine protecting group or a solid support can be present or absent on the prima amino group"
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/notes= "a hydroxyl protecting group can be present or absent on the hydroxyl group"
                                                                                                                                                                                                                                                                                                                                         US 08/338,890
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        group"
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/note= "a methyl group is
                                                                                                                                                                                                                                                                                                                                                                                                      US/08/997,263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ralph
Rolando
                                                                                                                                                                                                                                                                          38,788
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                                                                                                                                                                                                                                                               UPN-2040
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Pred. No. 1.6e+05,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mackiewicz and No. 6001960ris
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 6;
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US-08-321-625-86
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Thickes 3; Conserve
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PALENTIN Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/321,625
FILING DATE: 12-OCT-1994
CLASSIFICATION: 530
ATTORNEY
                                                                                                                                                                                                                                                                                                                                                                     ATTORNEY/AGENT INFORMATION:
NAME: TERRY, DAVID TO 178
REGISTRATION NUMBER: 20,178
REFERENCE/DOCKET NUMBER: 506.:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-312-6600
TELEPHONE: 703-312-6666
INFORMATION FOR SEQ ID NO: 86:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   sequence 86, Application US/08321625
Patent No. 5639860
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APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES: 92
CORRESPONDENCE ADDRESS: 92
ADDRESSEE: ANTONELLI, TERRY, STOUT & KRAUS
STREET: 1300 No. 5639860th Seventeenth Street, Suite 1800
CITY: Arlington
STATE: VA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
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                                                                                     MOLECULE TYPE: peptide HYPOTHETICAL: NO
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OTHER INFORMATION:
OTHER INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HAME/KEY:
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OTHER INFORMATION:
                                                                                                                                                                                     LENGTH: 7 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 WKVKFY 6
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TYPE:
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VENTION: ENDOTHELIN-ANTAGONIZING PEPTIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BANDO, Chleko
YAMAGUCHI, Kazuo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            KAWAMOTO, Isao
TSUKUDA, Eiji
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MAKINO, Mika
CHIBA, Shigeru
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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N-terminal
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/note= "a hydroxyl protecting group can be present or absent on the hydroxyl group"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /note- "a methyl group is present on the amino group" % \left( \frac{1}{2}\right) =\frac{1}{2}\left( \frac{1}{2}\right) +\frac{1}{2}\left( \frac{1}{2}\right) +
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /label- methy.
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Pred. No. 1.6e+05;
0; Mismatches 3
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Best Local Similarity
Thehes 3; Conserve
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US-08-500-956-2
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                                                                             RESULT 15
US-08-495-508-3
                                                                                                                                                                                                                                                                              ; MOLECULE TYPE:
US-08-500-956-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 2, Application US/08500956 Patent No. 5650269 GENERAL INFORMATION:
                                             Sequence 3, Application US/08495508 Patent No. 5859213
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Best Local Similarity
GENERAL INFORMATION:
APPLICANT: STEFAS
APPLICANT: RUCHETO
                                                                                                                                                                                                                                                                                                                                            TELEX: 6714627 CUSH
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 7 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/500,956
FILING DATE: 09-AUG-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: SADOFF, B J
                                                                                                                                                                                                                                                                                                                                                                                                           TELECOMMUNICATION INFORMATION:
TELEPHONE: 202/861-3000
TELEFAX: 202/822-0944
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
ADDRESSEE: CUSHMAN DARBY & CUSHMAN, IP GROUP
ADDRESSEE: PILLSBURY MADISON &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION: METHOD FOR DETECTING VIRAL COMPOUNDS TITLE OF INVENTION: USING A VIRAL PROTEIN NUMBER OF SEQUENCES: 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: RUCHETON, MARCEL APPLICANT: GRAAFLAND, HUBERT
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                                                                                                                                                                                                                                                                                                     TOPOLOGY: lines-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STREET: 1100 NEW CITY: WASHINGTON
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                                                                                                                                         2 WKSDA
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 STEFAS, ELIE RUCHETON, MARCEL
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 Mismatches

                                                                                                                                                                                                                     Score 19; DB 1;
Pred. No. 1.6e+05;
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Pred. No. 1.6e+05
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                                                                                                                                                                                                                                    Length 7;
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US-09-181-083-86
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                                                                                                                                                                                                                Sequence 86, App...
No. 6194195
                                                                                                                                                                                                        Patent No. 6194195
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION DATA:
APPLICATION NUMBER: FR 93/01399
FILING DATE: 09-FEB-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/FR94/00143
FILING DATE: 09-FEB-1994
ATTORNEEY/AGENT INFORMATION:
NAME: SADDEF, B.J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: (202) 822-094
INFORMATION FOR SEQ ID NO:
                                                                                                                                       APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT: MATSUDA, YUZUTU
TITLE OF INVENTION: ENDOTHELIN-ANTAGONIZING PEPTIDE
NTMRER OF SEQUENCES: 92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REGISTRATION NUMBER: 36,663
REFERENCE/DOCKET NUMBER: 21
TELECOMMUNICATION INFORMATION:
                                                                            APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY: 1i
MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
LENGTH: 7 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
                                                                                                           APPLICANT:
                                                                                                                          APPLICANT:
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                                                              APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                          Local Similarity 60.0%; ses 3; Conservation
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CITY: W
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/08/495,508 FILING DATE: 23-OCT-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEPHONE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDIUM TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY:
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                                                                                                                                                                                                                                                                                                                       WKSDA 6
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20005-3918
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            amino acid
                                                                                                                                                                                                                                      Application US/09181083
                                                                                       KAWAMOTO, Isao
TSUKUDA, Eiji
YOSHIDA, Mayumi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         E: CUSHMAN DARBY & CUSHMAN

E: Intellectual Property Group of

E: PILLSBURY MADISON & SUTRO LLP

1100 New York Avenue, N.W.
                                                                                                                                       MAKINO, Mika
CHIBA, Shigeru
                                           YAMAGUCHI, Kazuo
MATSUDA, Yuzuru
                                                                          BANDO, Chieko
                                                                                                                                                                          MORISHITA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GRAAFLAND, HUBERT
                                                                                                                                                                                         TANAKA, Takeo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PatentIn Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             E: Floppy disk
IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (202) 861-3000
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                                                                                                                                                                          Yoshikazu
                                                                                                                                                                                                                                                                                                                                                                                  0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                 Score 19; DB 2;
Pred. No. 1.6e+05;
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                                                                                                                                                                                                                                                                                                                                                                                                                Length 7;
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RESULT 17
US-08-240-511-1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 1, Application US/08240511 Patent No. 5643722
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Best Local S
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CLASSIFICATION DATA:
PRIOR APPLICATION NUMBER: US/08/
APPLICATION NUMBER: US/08/
FILLNG DATE: 12-OCT-1994
ATTORNEY/AGENT INFORMATION:
NAME: TERRY, DAVID TO TERRY, TO TERRY TO T
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HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-t
                                                                                     OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
ADDRESSEE: BAKER & BOTTS, L.L.P.
STREET: 1299 Pennsylvania Avenue, N.W.
                                                                                                                                                                                                                                      COMPUTER READABLE FORM: MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: ROTHSCHILD, Kenneth J.
APPLICANT: SONAR, Sanjay M.
TITLE OF INVENTION: METHODS FOR THE DETECTION AND ISOLATION OF PROTEINS NUMBER OF SEQUENCES: 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 KEGISTRATION NUMBER: 20,178
REFERENCE/DOCKET NUMBER: 500
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-312-6600
TELEPHONE: 703-312-6600
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
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APPLICATION NUMBER: US
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                          STREET: 1299 Peni
CITY: Washington
STATE: DC
CLASSIFICATION:
                            FILING DATE: 11-MAY-1994
                                                                                                                                                                                                          COMPUTER:
                                                                                                                                                                                                                                                                                                                                          COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEPHONE: 703-312-6666
                                                                   APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                          ZIP: 20004-2400
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STRANDEDNESS: si
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY:
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                                                                                                                                                                                                   IBM Compatible
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60.0%;
                                                                   US/08/240,511
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Pred. No. 1.6e+05;
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ATTORNEY/AGENT INFORMATION:

36,902

APPLICATION NUMBER: FILING DATE:

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COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: PC compatible
OPERATING SYSTEM: PC-DOSS/MS-DOS
SOFTWARE: Patentin Release #1.0, version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/687,219B
FILING DATE: 25-JUL-1996
PRIOR APPLICATION NUMBER: FR 95 09005
FILING DATE: 25-JUL-1995
ATTORNEY/AGENT INFORMATION:
NAME: Berridge, William P.
REGISTRATION NUMBER: WPB 38526
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703 836-2787
TELEPHONE: 703 836-2787
TELEFAX: TOR SEQ ID NO: 36:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; TOPOLOGY: lines; MOLECULE TYPE: ps; HYPOTHETICAL: NO; ANTI-SENSE: NO; FRAGMENT TYPE: NO ORIGINAL SOURCE: US-08-240-511-1
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Best Local Similarity
Matches 3; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES: 40
CORRESPONDENCE ADDRESSEE: OLIFF & BERRIDGE, PLC
ADDRESSEE: 700 South Washington Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEPHONE: 202-639-7700
                                                 SEQUENCE CHARACTERISTICS:
LENGTH: 8 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: JOLIVET-REYNAUD, COLETTE
TITLE OF INVENTION: PEPTIDE CAPABLE OF BEING RECOGNIZED BY
TITLE OF INVENTION: ANTIBODIES RECOGNIZING THE C33 ANTIGEN OF HEPATITIS C
MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: amino acids
TYPE: amino acid
STRANDEDNESS: single
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CITY: Alexandria
STATE: VA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX: 202-639-7890
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Remenick, James REGISTRATION NUMBER: 36. REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY: UZIP: 22314
              TOPOLOGY: unknown
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                                 amino acid
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RESULT

20

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; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: 1
; ORIGINAL SOURCE:
US-08-335-733D-23
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US-08-335-733D-23
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Best Local Similarity
"htches 3; Conserve
                                          Query Match
Best Local Similarity
"hes 2; Conserv
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Patent No. 6042831
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                                                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
NAME: MacLeod, Janet M
REGISTRATION UNMBER: 35,263
REFERENCE/DOCKET NUMBER: A299
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-408-2500
TELEFAX: 212-765-2519
                                                                                                                                                                                                                                                                                            INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: 10-NOV-1
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
LENGTH: 8 amino acids
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CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Beretta, TITLE OF INVENTION: TITLE OF INVENTION:
                                                                                                                                                                                                    MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET: 30 Roca
CITY: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/08/335,733D FILING DATE: 10-NOV-1994
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                                                                                                                                                                                                                                STRANDEDNESS:
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3 WRSELY
                         1 wkxxay
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10112-0228
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HIV PROTEIN EPITOPES
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                                                                       50.0%;
                                                        Score 18; DB
Pred. No. 1.6
1; Mismatches
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Pred. No. 1.6e+05
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                                                                       .6e+05;
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US-08-335-733D-25
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; ORIGINAL SOURCE:
US-08-335-733D-24
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                                                                                                                                                           Sequence 25, Application US/08335733D Patent No. 6042831 GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                        Query Match
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SEQUENCE CHARACTERISTICS:
                                                                                                             APPLICANT: Beretta, Alberto
TITLE OF INVENTION: HIV PROTEIN EPITOPES
TITLE OF INVENTION: IMMUNOLOGICALLY HOMOLOGOUS TO HLA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REGISTRATION NUMBER: 35,263
REFERENCE/DOCKET NUMBER: A2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-408-2500
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NAME: MacLeod, Janet M
                                                                             CORRESPONDENCE ADDRESS
                                                                                                                                                APPLICANT:
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HYPOTHETICAL:
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PRIOR APPLICATION DATA:
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                                                                                               NUMBER OF SEQUENCES:
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TITLE OF INVENTION: HMU PROTEIN EPITOPES
TITLE OF INVENTION: IMMUNOLOGICALLY HOMOLOGOUS TO
NUMBER OF SEQUENCES: 90
                                                ADDRESSEE: Baker & Botts, L.L.P. STREET: 30 Rockefeller Plaza
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                    STATE:
                                    CITY:
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COUNTRY: U.S.A.
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10112-0228
                  New York
NY
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30 Rockefeller Plaza
                                                                                                                                                                                                                                                                                                                                          Conservative
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33.3%;
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Pred. No. 1.6e+05;
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Best Local Similarity
Whiches 2; Conserve
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HYPOTHETICAL: NO
ANTI-SENSE: NO
                                                                                                                                                                                                                                                                    ZIP: 94306-0850
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                  SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/190,802A
FILING DATE: 01-FEB-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Mochly-Rosen, Daria
APPLICANT: Ron, Dorit
TITLE OF INVENTION: wD-40 - De:
TITLE OF INVENTION: Thereof
NUMBER OF SEQUENCES: 265
                                                      CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
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PRIOR APPLICATION DATA:
APPLICATION NUMBER:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STATE:
REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY:
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REGISTRATION NUMBER: 35,263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE:
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SOFTWARE: FastSE
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O. Box 60850
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                                                                                                         01-FEB-1994
N: 530
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US/08/335,733D
33,875
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Pred. No. 1.6e+05;
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RESULT 23
US-08-477-346-263
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                                                                                                                                                      REGISTRATION NUMBER: 29,959
REFERENCE/DOCKET NUMBER: 2550
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
INFORMATION FOR SEQ ID NO: 263:
SEQUIENCE CURRENCESSOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 47.2%;
Best Local Similarity 40.0%;
Matches 2; Conservative
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LENGTH: 5 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: (415) 324-0960 INFORMATION FOR SEQ ID NO: 3
                 MOLECULE TYPE:
HYPOTHETICAL: Y
ANTI-SENSE: NO
                                                                       SEQUENCE CHARACTERISTICS:
LENGTH: 5 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
                                                                                                                                                                                                                                                         PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/487,072
FILING DATE: 07-JUN-1995
ATTORNEY/ACENT INFORMATION:
NAME: MURASHIGE, KATE H.
REGISTRATION NUMBER: 29,959
                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Mochly-Rosen, Daria
APPLICANT: Ron, Dorit
TITLE OF INVENTION: WD-40 - Derived Peptides and Uses
TITLE OF INVENTION: Thereof
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HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
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ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US/O FILING DATE: 07-JUN-1995 CLASSIFICATION: 514
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Pred. No. 1.6e+05;
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; Sequence 79, Application US/0842848; Patent No. 5624894; GENERAL INFORMATION:
; APPLICANT: BODOR, Nicholas S.
; TITLE OF INVENTION: BRAIN-ENHAL
; TITLE OF INVENTION: PEPTIDES B)
; NUMBER OF SEQUENCES: 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 24
US-08-428-488-29
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Best Local Similarity
Thehas 3; Conserve
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US-08-428-488-79
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Best Local Similarity 40.0%;
Matches 2; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA: APPLICATION UMBER: US/08/428,488 FILING DATE: 27-APR-1995 CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE/DOCKET NUMBER: 02
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 836-6620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATTORNEY/AGENT INFORMATION: NAME: Baumeister, Mary F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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TITLE OF INVENTION:
TITLE OF INVENTION:
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LENGTH: 6 amino acids
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STRANDEDNESS: sir
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OPERATING SYSTEM: PC-DOS/MS-DOS
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STATE: Virginia
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VENTION: BRAIN-ENHANCED DELIVERY OF NEUROACTIVE
VENTION: PEPTIDES BY SEQUENTIAL METABOLISM
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75.0%;
   BRAIN-ENHANCED DELIVERY OF NEUROACTIVE PEPTIDES BY SEQUENTIAL METABOLISM 107
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Mismatches
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Pred. No. 1.6e+05;
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Pred. No. 1.6e+05;
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COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPAtible
OPERATING SYSTEM: PC-POS/MS-POS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION NUMBER: US/08/428,488
FILING DATE: 27-APR-1995
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Baumeister, Mary Katherine
REGISTRATION NUMBER: 028724-087
FELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 836-6620
TELEFAX: (703) 836-6620
TELEFAX: (703) 836-6620
TELEFAX: (703) 836-2021
INFORMATION FOR SEQ ID NO: 79:
SEQUENCE CHARACTERISTICS:
LENGTH: 6 amino acids
TYPE: amino acids
TYPE: amino acids
TYPE: amino acids
TYPE: Tinear
MOLECTIFE TYPE: DESCRIPTION
Search completed: January 14, 2002, 07:41:36 Job time: 457 sec
                                                                                                          DЪ
                                                                                                                                                                                                                                                                                                       ; FEATURE:
; NAME/KRY: Modified-site
; LOCATION: 6
; OTHER INFORMATION: /note= "Position 6 = D-Leu-Cholesteryl ester."
US-08-428-488-79
                                                                                                                                                                                            Query Match 47.3
Best Local Similarity 75.0
Matches 3; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE: NAME/KEY: Modified-site LOCATION: 3
OTHER INFORMATION: /note= "Position 3 = D-Ala."
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ADDRESSEE: Burns, Doane, Swecker & Mathis STREET: P.O. Box 1404
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STREET: P.O. Box:
CITY: Alexandria
STATE: Virginia
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OTHER INFORMATION: /note= "Position 1 = Nicotinoy1-Ala."
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1 AYAG 4
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75.08;
                                                                                                                                                                                          Score 17; DB 1; Length 6; Pred. No. 1.6e+05; O; Mismatches 1; Indels
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Title:
Perfect score:
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                                                                                                                                                                                                                                                                                                                               Database
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Maximum Match
Listing first
                                                                                                                                                                                                                                                                                                                                                                                    Minimum
                                                                                                                                                                                                                                                                                                                                                                                                                 Searched
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                                                                                                                                                                                                                                                                                                                                                                           length: 0 length: 8
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Match
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PIR_68:*
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Gapop 10.0 , Gapext 0.5
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35
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Copyright (c) 1993 - 2000 Comp
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$66195
A31263
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C61512
D61512
F37196
A34626
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$33246
$33246
A38887
$33245
A42057
$13661
                            JH0253
G37196
PT0281
PT0729
PT0580
B34835
                                                                                 B53284
PT0661
A32516
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                                                                                                                                                                                                                                                      SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Compugen Ltd
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14.080 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                    602
                                                                               alcohol dehydrogen dihydrofolate redu dihydrofolate redu cerebellar degener variant surface gl variant surface gl bradykinin-potenti RPCH-related neuro T-cell receptor be cholecystokinin-5
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T-cell receptor be
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                                                                                                                                                                   Ig heavy chain
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RESULT S33244 neuromodulatory peptide wwamide-3 - giant African snail C:Species: Achatina fulica (giant African snail) C;Species: Achatina fulica (giant African snail) C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 24-Jul-1997 C;Accession: S33246 R;Minakata, H.; Ikeda, T.; Muneoka, Y.; Kobayashi, M.; Nomoto, K. FEBS Lett. 323, 104-108, 1993 A;Title: Wwamide-1, -2 and -3: novel neuromodulatory peptides isolated from ganglia o A;Reference number: S33244; MUID:93265912 A;Accession: S33246 R:Minakata, H.; Ikeda, T.; Muneoka, Y.; Kobayashi, M.; Nomoto, K. FEBS Lett. 323, 104-108, 1993 A:Title: WWamide-1, -2 and -3: novel neuromodulatory peptides isolated from ganglia o A:Reference number: S33244; MUID:93265912 A:Accession: S33244; MUID:93265912 neuromodulatory peptide Wwamide-1 - giant African snail C;Species: Achatina fulica (giant African snail) C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 24-Jul-1997 C;Accession: S33244 A;Status: preliminary A;Molecule type: protein A;Residues: 1-7 <MIN> RESULT S33246 A;Status: preliminary A;Molecule type: protein A;Residues: 1-7 <MIN> В Š Query Match Best Local S Matches 3 Query Match Best Local Similarity Matches 3; Conser 1 wkxxs 5 1 WKEMS Similarity 3; Conserv υ Conservative Conservative 51.4%; 51.4%; Score 18; DB Pred. No. 2.2e 0; Mismatches 0; Score 18; DB 2; Pred. No. 2.2e+05; 0; Mismatches 2. 2e+05 2 Length 7; Length 7; Indels Indels 0 0; Gaps Gaps 0; 0

VQ

1 wkxxs 5

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R;Minakata, H.; Ikeda, T.; Muneoka, Y.; Koba
FEBS Lett. 323, 104-108, 1993
A;Title: WWamide-1, -2 and -3: novel neuromo
A;Reference number: S33244; MUID:93265912
A;Accession: S33245
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-7 <MIN>
                                                                                                                RESULT 5
A42057
fibroblast growth factor receptor 1, secreted - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 07-May-1999
C;Accession: A42057
R;Werner, S.; Duan, D.S.R.; de Vries, C.; Peters, K.G.; Johnson, D.E.; Williams, L.T.
Mol. Cell. Biol. 12, 82-88, 1992
A;Title: Differential splicing in the extracellular region of fibroblast growth factor A;Accession: A42057; MUID:92107200
A;Accession: A42057
A;Status: preliminary
A;Molacular type: NNA
                                                       C; Keywords: growth factor receptor
                                                                              A; Cross-references:
                                                                                             A; Molecule type: DNA
A; Residues: 1-8 <WER>
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C;Species: Achatina fulica (giant African snail)
C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 24-Jul-1997
C;Accession: S33245
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A;Molecule type: DNA
A;Residues: 1-8 <WHE>
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R;Whetsell, M; Mosley, R.L.; Whetsell, L.; Schaefer, F.V.; Miller, K.S.; Klein, Mol. Cell. Biol. 11, 5902-5909, 1991

A;Title: Rearrangement and junctional-site sequence analyses of T-cell receptor ga;Reference number: A41946; MUID:92049316

A;Accession: A38887
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C;Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 07-May-1999
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       42.98;
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Pred. No.
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2.2e+05;
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A; ACCESSAL...
A; Molecule type: DNA
A; Residues: 1-5 < YAN/>
A; Experimental source: B lymphocyte
A; Experimental source: B lymphocyte
                              R;Hjelmqvist, L.; Hackett, M.; Shafqat, J.; Danielsson, O.; Iida, J.; Hendrickson, R. FEBS Lett. 367, 237-240, 1995
A;Title: Multiplicity of N-terminal structures of medium-chain alcohol dehydrogenases
                                                                                           C;Species: Gadus sp. (cod)
C;Date: 19-Mar-1997 #sequence_revision
C;Accession: S66195
A; Reference number: S66191;
                                                                                                                                                    alcohol dehydrogenase (EC 1.1.1.1) class III low affinity form
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G. J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity A;Reference number: PT0222; MUID:91108337
A;Accession: PT0308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ig heavy chain CRD3 region (clone 6-88) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
C;Accession: PT0308
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Best Local Similarity
Thehes 2; Conserve
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         polygalacturonase (EC 3.2.1.15) isoform PG2 - fu
N;Alternate names: endopolygalacturonase; pectin
C;Species: Sclerotinia sclerotiorum
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S13661
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Molecule type: protein A; Residues: 1-8 < WAK>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R; Waksman, G.; Keon, J.P.R.; Turner, G. Biochim. Biophys. Acta 1073, 43-48, 1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C;Date: 19-Mar-1997 #sequence_revision 21-Nov-1998 #text_change 21-Nov-1998
C;Accession: S13661
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Pred. No. 2.2e+05;
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Pred. No. 2.
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A;Accession: S66195
A;Molecule type: protein
A;Residues: 1-6 «HJE>
A;Residues: 1-6 «HJE>
C;Superfamily: alcohol dehydrogenase; long-chain alcohol dehydrogenase homology
C;Keywords: alcohol metabolism; NAD; oxidoreductase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  R;Peterson, D.S.; Walliker, D.; Wellems, T.E.
Proc. Natl. Acad. Sci. U.S.A. 85, 9114-9118, 1988
A;Title: Evidence that a point mutation in dihydrofolate reductase-thymidylate synthase A;Reference number: A94217; MUID:89057886
A;Accession: A31263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT
A31263
cerebellar degeneration-related protein - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 28-Sep-1990 #sequence_revision 28-Sep-1990 #text_c
                                                     RESULT
B35640
                                                                                                                                                                                                                                                                    A; Residues:
C; Keywords:
                                                                                                                                                                                                                                                                                                                                R;Peterson, D.S.; Walliker, D.; Wellems, T.E.
Proc. Natl. Acad. Sci. U.S.A. 85, 9144-9118, 1988
A;Title: Evidence that a point mutation in dihydrofolate reductase-thymidylate synthase
A;Reference number: A94217; MUID:89057886
A;Accession: B31263
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variant surface glycoprotein MITat 1.6 - Trypanosoma brucei (fragment) (;Species: Trypanosoma brucei (;Species: Trypanosoma brucei (;Species: 28-Oct-1994 #sequence_revision 28-Oct-1994 #text_change 07-May-1999 C;Accession: D61512 R;Holder, A.A.; Cross, G.A.M. Mol. Biochem. Parasitol. 2, 135-150, 1981 A;Reference number: A61512; MUID:81172836 A;Accession: D61512...
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R;Chen, Y.T.; Rettig, W.J.; Yenamandra, A.K.; Kozak, C.A.; Chaganti, Proc. Natl. Acad. Sci. U.S.A. 87, 3077-3081, 1990
A;Title: Cerebellar degeneration-related antigen: a highly conserved A;Reference number: A35640; MUID:90222173
A;Accession: B35640
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A; Molecule type: protein
A; Residues: 1-8 <HOL>
C; Keywords: glycoprotein
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A;Title: Glycopeptides from variant surface glycoproteins of Trypanosoma brucei. C-te
A;Reference number: A61512; MUID:81172836
A;Accession: C61512
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C;Date: 28-Oct-1994 #text_change 07-May-1999
C;Accession: C61512
R;Holder, A.A.; Cross, G.A.M.
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A; Residues: 1-6 < CHE>
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A;Molecule type: protein
A;Residues: 1-8 <HOL>
C;Keywords: glycoprotein
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R; Harindranath, N.; Alexander, C.B.; Mage, R.G. Mol. Immunol. 28, 881-888, 1991
A;Title: Evolutionarily conserved organization A;Reference number: A53284; MUID:91342695
A;Accession: B53284
                                                                                                                                                                                                                                                                                                             RESULT
B53284
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                                                                     C; Keywords: T-cell receptor
                                                                                                  A; Molecule type: DNA
A; Residues: 1-4 <HAR>
A; Cross-references: GB:S60737;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C;Species: Fusinus ferrugineus (ferruginous spindle)
C;Date: 06-Jul-1990 #sequence_revision 06-Jul-1990 #
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A; Residues: 1-3 <CIN>
C; Keywords: pyroglutamic
F; 1/Modified site: pyrrol
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A;Title: Primary structure and biological activity
A;Reference number: A37196; MUID:90351557
A;Accession: F37196
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                                                                                       A; Note: sequence extracted from
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A; Residues: \hat{1}-5 <\hat{S}HI> c); Comment: This peptide corresponds to the five carboxyl-terminal residues of cholecy C; Superfamily: gastrin C; Superfamily: gastrin C; Keywords: amidated carboxyl end; neuropeptide F; 5/Modified site: amidated carboxyl end (Phe) #status experimental
R;Graff, D.; Grimmelikhuijzen, C.J.P.
Brain Res. 442, 354-358, 1988
A;Tille: Isolation of <Glu-Ser-Lu-Arg-Trp-NH-2,
A;Reference number: A60803; MUID:88222764
                                                                                                      neuropeptide - sea anemone (Anthopleura elegantissima)
C;Species: Anthopleura elegantissima
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #te
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Best Local Similarity
Thehes 1; Conserv
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A;Title: CCK-5: sequence analysis of a small cholecystokinin from canine brain and in a sequence analysis of a small cholecystokinin from canine brain and in a sequence number: A32516; MUID:87153871
A; Recession: A32516
A; Molecule type: protein
A; Residues: 1-5 <SHI>
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A;Residues: 1-4 <FEE>
A;Experimental source: day 4 postnatal thymus, strain BALB/C
C;Keywords: T-cell receptor
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C;Date: 18-Oct-1989 #sequence_revision 18-Oct-1989 #text_change 18-Aug-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cholecystokinin-5 - dog
N;Alternate names: CCK-5
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A;Title: Junctional sequences of fetal TA;Reference number: PT0509; MUID:91277601
A;Accession: PT0661
A;Status: translation not shown
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C;Species: Mus musculus (house mouse)
C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
                                                                                      C; Accession: A60803
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A;Molecule type: protein
A;Molecule type: protein
A;Residues: 1-5 <GRA>
A;Residues: 3-5 <GRA
C;Keywords: amidated carboxyl end; neuropeptide; pyroglutamic acid
F;1/Modified site: pyrrolldone carboxylic acid (Gln) #status experimental
F;5/Modified site: amidated carboxyl end (Trp) #status experimental
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R;Uesaka, T.; Ikeda, T.; Kubota, I.; Muneoka, Y.; Ando, M. Biochem. Biophys. Res. Commun. 180, 828-832, 1991
A;Title: Structure and function of a pentapeptide isolated A;Reference number: JH0253; MUID:92062113
A;Accession: JH0253
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C:Species: Anguilla japonica (Japanese eel)
C:Date: 31-Mar-1992 #sequence_revision 31-Mar-1992 #text_change 11-Apr-1995
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A;Residues: 1-5 CCIN>
C:Keywords: pyroglutamic acid
F;1/Modified site: pyrrolidone
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J. Protein Chem. 9, 221-227, 1990
A;Title: Primary structure and biological activity of bradykinin A;Reference number: A37196; MUID:90351557
A;Accession: G37196
                                                                                                                                                                                                                                                                                                                                                                                                bradykinin-potentiating peptide 7 - island jararaca c;Species: Bothrops insularis (island jararaca) C;Date: 14-Feb-1992 #sequence_revision 01-Dec-1992 C;Accession: G37196
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100.0%; Pred. No. 2.2e+05;
Live 0; Mismatches 0;
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R:Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G. J. Exp. Med. 173, 395-407, 1991
A:Title: Preferential utilization of specific immunoglobulin heavy chain diversity an A:Reference number: PT0222; MUID:91108337
A:Accession: PT0281
A:Molecule type: DNA
A:Residues: 1-5 <YAM>
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C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_ch;
C;Accession: PT0281
J. Exp. Med. 174, 115-124, 1991
A:Title: Junctional sequences of fetal T cell receptor beta chains A:Reference number: PT0509; MUID:91277601
A:Accession: PT0580
A:Status: translation not shown
                                                                                                                                        T-cell receptor beta chain V-D-J region (159-2B) - C:Species: Mus musculus (house mouse) C:Date: 17-Jul-1992 #sequence_revision 17-Jul-1992
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A; Residues: 1-5 <FE3>
A; Experimental source: newborn thymus,
C; Keywords: T-cell receptor
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A; Residues: 1-5 <FE2>
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A; Residues: 1-5 <FEE>
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A; Title: Junctional sequences of fetal T cell receptor beta A; Reference number: PT0509; MUID:91277601
A; Accession: PT0640
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2.2e+05;
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                                                                                                                                            #text_change
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RESULT 25
B34835

dnaA protein - Pseudomonas aeruginosa (fragment)
C;Species: Pseudomonas aeruginosa
C;Date: 13-Jul-1990 #sequence_revision 13-Jul-1990 #text_change 08-Oct-1999
C;Accession: B34835
R;Yee, T W.; Smith, D.W.
Proc. Natl. Acad. Sci. U.S.A. 87, 1278-1282, 1990
A;Title: Pseudomonas chromosomal replication origins: a bacterial class distinct from Es A;Reference number: A34835; MUID:90160310
A;Accession: B34835
A;Scatus: preliminary
A;Molecule type: DNA
A;Residues: 1-6 (YEE>
A;Cross-references: GB:M30125; NID:g151419; PIDN:AAA25916.1; PID:g151421
C;Keywords: DNA binding
Search completed: January 14, 2002, 07:44:22 Job time: 408 sec
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A;Residues: 1-5 <FEE>
A;Experimental source: day 19 fetal thymus, strain BALB/c
C;Keywords: T-cell receptor
                                                                                                                                                                                                    Query Match 31.4%; Score 11; DB 2; Length 6; Best Local Similarity 100.0%; Pred. No. 2.2e+05; Matches 1; Conservative 0; Mismatches 0; Indels
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Best Local Similarity 100.0%; Pred. No. 2.2e+05;
Matches 1; Conservative 0; Mismatches 0;
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Perfect score:
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TPIS_CANFA
UF01_MOUSE
LOK1_LOCMI
ACI_THUAL
AKH_GERYBI
AKH_LIBAU
AKH_TABAT
CCKN_MACEU
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HTF1_PERAM
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	P01153 sus scrofa	P41866 calliphora	P41875 panagrellus	P38498 procambarus	P38499 procambarus	P81808 carcinus ma	P81807 carcinus ma	P81806 carcinus ma	P81805 carcinus ma	P42985 leptinotars	P41966 moniezia ex	P02729 homo sapien	P42564 hirudo medi	P42984 leptinotars	P82158 cydia pomon	_	P82155 cydia pomon

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MOD_RES 7 7
SEQUENCE 7 AA; 964 MW:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Achatina fulica (Giant African snail) Eukaryota; Metazoa; Mollusca; Gastropo Achatinacea; Achatinidae; Achatina. NCBI_TaxID=6530;
                                                                                                                                    Achatina fulica (Giant African snail).
Eukaryota; Metazoa; Mollusca; Gastropoda;
Achatinacea; Achatinidae; Achatina.
NCBI_TaxID=6530;
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TISSUE-Ganglion;
MEDLINE-93265912; PubMed-8495720;
Minakata H., Ikeda T., Muneoka Y.,
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                                                                                          SEQUENCE.
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BPP7_BOTIN
ID BPP7_B
AC P30425
AC P30425
AT 01-APR
DT 01-FEB
DT 01-FEB
DE BRADYK
DE ENZYME
OS Bothro
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P30425;
01-APR-1993 (Rel. 25, Created)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last annotation update)
BRADKININ-POTENTIATING PEPTIDE S5,2 (5A) (ANGIOTENSIN-CONVERTING
                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE-93265912; PubMed-8495720;
Minakata H., Ikeda T., Muneoka Y., Kobayashi M., Nomoto K.;
Minakata H., Ikeda T., Muneoka Y., Kobayashi M., Nomoto K.;
"William and -3: novel neuromodulatory peptides isolated from ganglia of the African giant snail, Achatina fulica.";
EBBS Lett. 323:104-108(1993).
-1- FUNCTION: EXHIBITS MODULATORY EFFECTS ON THE PERIPHERAL NERVOUS
SYSTEM. INHIBITS ACTIVITY ON A CENTRAL NEURON.
PIR: S33245; S33245.
                                                                    Bothrops insularis (Island jararaca) (Queimada jararaca).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;
Viperidae; Crotalinae; Bothrops.
TISSUE=Venom;
MEDLINE=90351557;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Achatina fulica (Giant African snail).
Eukaryota; Metazoa; Mollusca; Gastropoda; Pulmonata; Stylommatophora;
Achatinacea; Achatinidae; Achatina.
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01-JUN-1994 (Rel.
01-OCT-1994 (Rel.
                                 SEQUENCE.
                                                                                                                            ENZYME INHIBITOR).
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01-JUN-1994
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MOD_RES 7 7
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MOD_RES 7 7
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  PubMed=2386615;
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7362D5B69B041310 CRC64;
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7362D5B69B132310 CRC64;
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Pred. No. 1e+0
1; Mismatches
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Pred. No.
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UF01_MOUSE STANDARD; I
AC P38639;
DT 01-OCT-1994 (Rel. 30, Created)
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"Primary structure and biological activity of bradykinin potentiating peptides from Bothrops insularis snake venom.";

J. Protein Chem. 9:221-227(1990).

-I- FUNCTION: THIS PEPTIDE BOTH INHIBITS THE ACTIVITY OF THE ANGIOTENSIN-CONVERTING ENZYME AND ENHANCES THE ACTION OF BRADYKININ BY INHIBITING THE KINASES THAT INACTIVATE IT.

IT ACTS AS AN INDIRECT HYPOTENSIVE AGENT.

PIR: 337196; G37196.
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Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
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MOD_RES 1 1
SEQUENCE 5 AA; 629 MW;
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Pred. No. 1e+05;
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MEDLINE-95009907; PubMed-7523108;

MCTRICK B.A., Patterson R.M., Wichter L.L., He C., Selkirk McTrick B.A., Patterson R.M., Wichter L.L., He C., Selkirk "Separation and sequencing of familiar and novel murine prousing preparative two-dimensional gel electrophoresis.";

Electrophoresis 15:735-745(1994).
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Eukaryota; Mctazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-OCT-1994 (Rel. 30, Last sequence update)
01-FEB-1995 (Rel. 31, Last annotation update)
UNKNOWN PROTEIN FROM 2D-PAGE OF FIBROBLASTS (P19) (FRAGMENT).
                                                                                                                                                                          Neuropeptide; /
MOD_RES
SEQUENCE 6 A/
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Pterygota; Neoptera; Orthopteroidea; Orthoptera;
Acridomorpha; Acridoidea; Acrididae; Locusta.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-NOV-1995 (Rel. 32, Created)
01-NOV-1995 (Rel. 32, Last sequence update)
15-JUL-1998 (Rel. 36, Last annotation update)
ACI_THUAL
                                                                                                                                                                                                              "Locustakinin, a novel myotropic pept isolation, primary structure and synt Regul. Pept. 37:49-57(1992).
-I- FUNCTION: MYOTROPIC PEPTIDE. MAY OF ION TRANSPORT AND INHIBITION OF TUBULES.
PIR: A61068: A61068.
                                                                                                                                                                                                                                                                                                             TISSUE-Corpora cardiaca;
MEDLINE-92262851; PubMed-1585017;
Schoofs L., Holman G.M., Proost P.,
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P41491;
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NCBI_TaxID=7004;
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01-NOV-1990 (Rel. 16, Created)
01-NOV-1990 (Rel. 16, Last sequence update)
01-NOV-1990 (Rel. 16, Last sequence update)
01-NOV-1990 (Rel. 16, Last annotation update)
ANGIOTENSIN-CONVERTING ENZYME INHIBITOR.
Thunnus albacares (Yellowfin tuna) (Noothunnus macropterus).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gryllus bimaculatus (Two-spotted cricket), and Romalea microptera (Lubber grasshopper).

Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insect Pterygota; Neoptera; Orthopteroidea; Orthoptera; Ensifera; Gryllinae; Gryllus.
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                                                                               SPECIES=R.microptera; TISSUE=Corpora cardiaca;
MEDLINE=89145002; PubMed=3226948;
Gaede G., Hilbich C., Beyreuther K., Rinehart K.L. Jr.;
Gaede G., Hilbich C., Beyreuther K., Rinehart K.L. Jr.;
"Sequence analyses of two neuropeptides of the AKH/RPCH-family fro
"Sequence analyses of two neuropeptides of the AKH/RPCH-family fro
"Sequence analyses of two neuropeptides of the AKH/RPCH-family fro
"Sequence analyses of two neuropeptides of the AKH/RPCH-family fro
"Sequence analyses of two neuropeptides of the AKH/RPCH-family fro
"Sequence analyses of two neuropeptides of the AKH/RPCH-family fro
"CARDIACA ASSOCIATION THE FAT BOLY AND THEN STUMULATES THE FLIGHT
"ITEL ASSOCIAL ASSOCIATION OF THE AKH / HRTH / RPCH FAMILY.
                                                                                                                                                                                                                                                                                                               SPECIES-G.bimaculatus; TISSUE-Corpora cardiaca; MEDLINE-88106553; PubMed-3426616; Gaede G., Rinehart K.L. Jr.; Primary sequence analysis by fast atom bombardment mass spectrometry of a peptide with adipokinetic activity from the corpora cardiaca of the cricket Gryllus bimaculatus."; bijochem. Biophys. Res. Commun. 149:908-914(1987).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AKHG_GRYBI STANDARD; PRT; 8 AA. P14086; O1-JAN-1990 (Rel. 13, Created) O1-FEB-1994 (Rel. 28, Last sequence update) O1-FEB-1994 (Rel. 28, Last annotation update) ADIPOKINETIC HORMONE (G. (AKH-G) (RO II).
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                                 PIR; A28004; A28004.
InterPro; IPR002047; AKH.
PROSITE; PS00256; AKH; 1.
Neuropeptide;
MOD_RES
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ARH_MEIML

D AKH_MEIML

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DT 01-MAY-1992 (Rel. 28, Last sequence or 01-FEB-1994 (Rel. 28, Last sequence or 01-FEB-1994 (Rel. 28, Last annotation update, DT 01-FEB-1994 (Rel. 28, Last annotation update, DT 01-FEB-1994 (Rel. 28, Last annotation update, DT 01-FEB-1994 (Rel. 28, Last annotation update, DT 01-FEB-1994 (Rel. 28, Last annotation update, DT 01-FEB-1994 (Rel. 28, Last sequence or Security of Cockchafer), OS Meiolontha melolontha (Cockchafer), OS Geotrupes stercorosus (Dor beetle), and OS Pachnoda marginata (Flower bee
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MOD_RES
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P25418;
01-MAY-1992 (Rel. 22, Created)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last annotation update)
ADIPOKINETIC HORMONE (AKH).
Libellula auripennis (Skimmer dragonfly).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Eukaryota; Metazoa; Arthropoda; Tracheata; Libellulidae; Lii
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SEQUENCE
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InterPro; IPR002047; AKH.
PROSITE: PS00256; AKH; 1.
Neuropeptide; Amidation; Flight.
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TISSUE=Corpora cardiaca;
MEDLINE=90359055; PubMed=2390213;
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FUNCTION: THIS HORMONE, RELEASED FROM CELLS IN THE CORPORA CARDIACA AFTER THE BEGINNING OF FLIGHT, CAUSES RELEASE OF DIGLYCERIDES FROM THE FAT BODY AND THEN STIMULATES THE FLIG MUSCLES TO USE THESE DIGLYCERIDES AS AN ENERGY SOURCE.
SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
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T 01-FEB-1994 (Rel. 28, Last annot
T 01-FEB-1994 (Rel. 28, Last annot
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MEDITINE-90046758; pubMed=2813385;

Jaffe H., Raina A.K., Riley C.T., Fraser B.A., Nachman R.J.,

Vogel V.W., Zhang Y.-S., Hayes D.K.;

"Primary structure of two neuropeptide hormones with adipokinetic

"Primary structure of two neuropeptide hormones cardiaca of ho
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Tabanus atratus (Horse fly).
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Neuropeptide; Amidation; Flight.

MOD_RES 1 PYF

MOD_RES 8 8 AM;

SEQUENCE 8 AA; 1022 MW; 867F
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                                                                                                                                                                  hypotrehalosemic activity isolated flies (Diptera).";
Proc. Natl. Acad. Sci. U.S.A. 86:81
                                                                                                                                                                                                                                                                                                                                                TISSUE=Corpora
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                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "A unique charged tyrosine-containing member of the adipokinetic hormone/red-pigment-concentrating hormone peptide family isolated sequenced from two beetle species.";
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                    SIMILARITY: BELONGS TO ; A33995; A33995.
                                                                C. Natl. Acad. Sci. U.S.A. 86:8161-8164(1989).

FUNCTION: THIS HORMONE, RELEASED FROM CELLE IN THE CORPORA FUNCTION: THE BEGINNING OF FLIGHT, CAUSES RELEASE OF DIGLYCERIDES FROM THE FAT BODY AND THEN STIMULATES THE FLIGHT MUSCLES TO USE THESE DIGLYCERIDES AS AN ENERGY SOURCE.
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Neoptera; Endopterygota;
Tabanus.
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01-APR-1993 (Rel. 2
01-OCT-1996 (Rel. 3
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P04548;
13-AUG-1987
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MOD_RES
SEQUENCE
        13-AUG-1987 (Rel. 05, Created)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last annotation update)
11-FEB-1994 (Rel. 28, Last annotation update)
12-194 (Rel. 28, Last sequence update)
13-AUG-1994 (Rel. 28, Last sequence update)
13-AUG-1994 (Rel. 28, Last sequence update)
14-AUG-1994 (PERIPALOSAEMIC NEUROPEPTIDE I)
15-AUG-1994 (Rel. 28, Last sequence update)
16-AUG-1994 (Rel. 28, Last sequence update)
17-AUG-1994 (Rel. 28, Last sequence update)
18-AUG-1994 (Rel. 28, Last sequence update)
19-AUG-1994 (Rel. 28, Last sequence 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Macropus eugenii (Tammar wallaby), and
Dasyurus viverrinus (Southeastern quoli).
Eukaryota, Mctazoa; Chordata; Craniata; Vertebrata; Euteleos
Mammalia; Metatheria; Diprotodontia; Macropodidae; Macropus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE-88234141; PubMcd-3375140; Fan Z.W., Eng J., Shaw G., Yalow
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TISSUE-Brain;
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PROSITE; PS00259; GASTRIN;
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tide; Amidation; Flight.
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P04549;
13-AUG-1987
01-FEB-1994
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                                                                                                                                                                                                                                                                                                                                                                                 SPECIES=B.orientalis; TISSUE=Corpora cardiaca; MEDLINE=90253659; PubMed=2340112; Gaede G., Rinehart K.L. Jr.; Gaede G., Rinehart K.L. Jr.; Grimary structures of hypertrehalosaemic neuropeptides isolated from the corpora cardiaca of the cockroaches Leucophaea maderae, Gromphadorhina portentosa, Blattella germanica and Blatta orientalis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "The metabolic neuropeptides of the corpus cardiacum beetle and the American cockroach are identical."; Peptides 10:1287-1289(1989).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SPECIES-L.decemlineata; TISSUE-Corpora MEDLINE-90160053; PubMed-2576128; Gaede G., Kellner R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=85046530; PubMed=6548628; Witten J.L., Schaffer M.H., O'Shea Rinehart K.L. Jr.;
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NCBI_TaxID=6978, 7539, 6976;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "Isolation and primary structure of two peptides with cardloacceleratory and hyperglycemic activity from the cardiaca of Periplaneta americana."; proc. Natl. Acad. Sci. U.S.A. 81:5575-5579(1984).
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MEDLINE=84298179; PubMed=6591205;
Scarborough R.M., Jamieson G.C.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Structures of two cockroach neuropeptides assigned bombardment mass spectrometry."; Biochem. Biophys. Res. Commun. 124:350-358(1984).
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PS00256; AKH; 1.
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Amidation.
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Matches
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*Primary structures of hypertrehalosaemic neuropeptides isolated from the corpora cardiaca of the cockroaches Leucophaea maderae, gromphadorhina portentosa, Blattella germanica and Blatta orientalis and of the stick insect Extatosoma tiaratum assigned by tandem fast atom bombardment mass spectrometry.*;

**atom bombardment mass spectrometry.**;

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                                                                                                                                                                                                                                                                                                                Neuropeptide; Amidation.
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MOD_RES 8 8
SEQUENCE 8 AA; 1006 M
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta; Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria; Blattoidea; Blattidae; Periplaneta.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SPECIES=B.orientalis; TISSUE=Corpora cardiaca;
MEDLINE=90253659; PubMed=2340112;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SPECIES=L.decemlineata;
MEDLINE=90160053; PubMec
Gaede G., Kellner R.;
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MEDLINE-84298179; PubMed-6591205;
Scarborough R.M., Jamieson G.C.,
Miller C.A., Schooley D.A.;
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SPECIES-P. americana;
MEDLINE-85046530; PubMed=6548628;
MEDLINE-85046530; PubMed=6548628;
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HYPERTREHALOSAEMIC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Periplaneta americana (American cockroach),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Structures of two cockroach neuropeptides assigned
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                                                                                                                                                                        Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SIMILARITY: BELONGS TO ; A05170; A05170.; $08996; $08996.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              B44960; B44960.
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                                                                  _
                                                                                                                                           Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      tidae; Periplaneta.
7539, 6976;
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PubMed=2576128;
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Pred. No.
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LCK1_LEUMA
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Best Local :
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p25419;
01-MAY-1992 (Rel. 2
01-FEB-1994 (Rel. 2
01-FEB-1994 (Rel. 2
                                                                                                                                                                                                                                                                                                                                                                                                                                              LCK1_LEUMA STANDARD; PRT: P21140; 01-MAY-1991 (Rel. 18, Created) 01-MAY-1991 (Rel. 18, Last sequence up 01-MAY-1991 (Rel. 18, Last annotation LEUCOKININ I (L-I).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TENMO
                                                                   Comp. Biochem. Physiol. 84C:205-211(1986).

-i- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACTILE
-ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).

-i- SIMILARITY: TO THE OTHER LEUCOKININS.
                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta; Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria; Blaberoidea; Blaberidae; Leucophaea.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-MAY-1992 (Rel. 22, Created)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last annotation update)
HYPERTERHALOSAEMIC FACTOR (HOTH) (HYPERTREHALOSEMIC NEUROPEPTIDE).
Tenebrio molitor (Yellow mealworm), and Zophobas rugipes.
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Endopterygota; Coleoptera; Polyphaga;
Cucujiformia; Tenebrionidae; Tenebrio.
NCBI_TaxID=7067, 7075;
                                                                                                                                                            Cephalomyotropins.";
                                                                                                                                                                                          Holman G.M., Cook B.J., Nachman R.J.; "Isolation, primary structure and synthesis of two neuropeptides from Leucophaea maderae: members of a new family of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Neuropeptide; Amidation. MOD_RES 8 8
                                                                                                                                                                                                                                                                                                                                     NCBI_TaxID=6988;
                                                                                                                                                                                                                                                                                                                                                                                                                               Leucophaea maderae (Madeira cockroach)
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PIR; B43976; B43976.
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MEDLINE=90341081; PubMed=2381871;
                                                                                                                                                                                     from Leucophaea maderae: members
                                                                                                                                                                                                                                                                FISSUE=Head;
                                                                                                                                                                                                                                                                                         SEQUENCE, AND SYNTHESIS.
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  8 AA;
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100.0%;
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Pred. No.
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Holman G.M., Cook B.J., Nachman R.J.;
"Primary structure and synthesis of two additional neuropeptides
"Primary structure and expenses of a new family of
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blaberoidea; Blaberidae; Leucophaea.
MCBI_TaxID=6988;
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blaberoidea; Blaberidae; Leucophaea.
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01-MAY-1991 (Rel. 18, Last sequence update)
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LEUCOKININ III (L-III)
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MOD_RES 8 8
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01-MAY-1991 (Rel. 18, Last sequence update)
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LEUCOKININ II (L-II)
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LEUCOKININ V (L-V).
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P21143;
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MEDLINE=87052651; PubMed=2877794;

Holman G.M., Cook B.J., Nachman R.J.;

"Isolation, primary structure, and synthesi:

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Comp. Biochem. Physiol. 88C:27-30(1997).

-I- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE

-I- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE
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-i- FUNCTION: THIS CEPHALOMYOTROPE SEPTIDE ST
-ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).
-i- SIMILARITY: TO THE OTHER LEUCOKININS.
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Primary structure and synthesis of two additional neuropeptides
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blaberoidea; Blaberidae; Leucophaea.
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LEUCOKININ IV (L-IV)
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Neoptera; Orthopteroidea;
a; Blaberidae; Leucophaea.
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Best Local
                                                                                                                                                                          ICK7_LEUMA STANDARD, p1998; 01-FEB-1991 (Rel. 17, C) 01-FEB-1991 (Rel. 17, L, C) 01-FEB-1991 (Rel. 17, L, L, EUCOKININ VII (L-VII).
                                                    LEUCOKININ vii (p. 12), Leucophaea maderae (Madeira cockroacii). Leucophaea maderae (Madeira cockroacii). Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta Eukaryota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria; Pterygota; Neoptera; Crimophaea.
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SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "Isolation, primary structure, and synthesis of leucokinins V and V myotropic peptides of Leucophaea maderae.";

Comp. Biochem. Physiol. 88C:27-30(1987).

-i- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACTILE

ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).

-i- SIMILARITY: TO THE OTHER LEUCOKININS, AND TO MANDUCA SEXTA AND
TISSUE=Wead;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Leucophaea maderae (Madeira cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blaberoidea; Blaberidae; Leucophaea.
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MOD_RES 8 8
SEQUENCE 8 AA; 784 MW
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01-FEB-1994 (Rel. 28,
30-MAY-2000 (Rel. 39,
LEUCOKININ VI (L-VI).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LEUMA
                     SEQUENCE.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=87052651; PubMed=2877794;
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736365A5B9C865B8 CRC64;
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PLP_BRANA STANDARD; PRT; 8 AA.

AC P81707;
DT 15-JUL-1999 (Rel. 38, Created)
DT 15-JUL-1999 (Rel. 38, Last sequence update)
DT 30-MAY-2000 (Rel. 39, Last annotation update)
DE PLASTIDIAL LIPID-ASSOCIATED PROTEIN (FRAGMENT).

OS Brassica napus (Rape).

OC Enkaryota; Viridiplantae; Streptophyta; Embryopl
CC Spermatophyta; Magnoliophyta; eudicotyledons; co
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"Isolation, primary structure and synthesis of leucokinins VII and VIII: the final members of this new family of cephalomyotropic peptides isolated from head extracts of Leucophaea maderae.";

Comp. Biochem. Physiol. 88C:31-34(1987).

-I- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACTILE ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).

-I- SIMILARITY: TO THE OTHER LEUCOKININS.

PIR; JS0317; JS0317.
 Brassica napus (Rape).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
                                                                                                                                                                                                                                                                                                                                                                                    "Isolation, primary structure and synthesis of leucokinins VII and VIII: the final members of this new family of cephalomyotropic peptides isolated from head extracts of Leucophaea maderae."; Comp. Biochem. Physiol. 88c:31-34(1987).
-!- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACTILE ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blaberoidea; Blaberidae; Leucophaea.
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MOD_RES
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Holman G.M., Cook B.J., Nachman R.J.;
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OC eurosids II; Brassicales; Brassicaceae; Brassica.

OX NCBI_TaxID.3708;
RN [1]
RP SEQUENCE.
RC STRAIN-CV. TOPAZ: TISSUE-Tapetum;
RR MEDLINE-99349136; PubMed:010420651;
RA Hernandez-Pilzon I., Ross J.H.E., Barnes K.A., Damant A.P.,
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Q34909	Q95213	Q15898	Q9R5L7	Q9S443	Q9S6D5	Q45889	Q56140	098866	Q15903	Q9TRX8	Q9TWH6	Q9R9E0	Q56759	Q9QVF4	Q9GD00	д9нсд0	P87225	Q9R5R0	007354	Q98TU5	P79940	Q99MN0	Q9ET16	뗩	\mathbf{r}	P82598	ω	Q9T4Y2	н	Q9TRY3
34909	Q95213 oryctolagus	8 homo	Q9r517 clostridium	Q9s443 pseudomonas	Q9s6d5 escherichia	Q45889 clostridium	Q56140 streptococc	098866 spinacia ol			Q9twh6 perinereis	Q9r9e0 bacillus su	xanthoba	Q9qvf4 rattus sp.	masoa		225 saccharomy	5r0	354 s		P79940 xenopus lae	Q99mn0 mus musculu	Q9et16 mesocricetu	nus	18 mus spr	2598	35835 rattus n	t4 y	Q9td02 terranatos	Q9try3 sus sp. ins

NON_TER SEQUENCE FROM N.A. MEDLINE-81069885; PubMed-6254986; MEDLINE-81069885; PubMed-6254986; Bonitz S.G., Coruzzi G., Thalenfeld B., Tzagoloff A., Macino ("Assembly of the mitochondrial membrane system. Structure and nucleotide sequence of the gene coding for subunit 1 of yeast cytochrme oxidase."; J. Biol. Chem. 255:11927-11941(1980). EMBL; V00694; CAA24066.1; -. Q95945 PRELIMINARY; PRT; 7 AA. Q95945; Q1-FEB-1997 (TrEMBLrel. 02, Created) 01-FEB-1997 (TrEMBLrel. 02, Last sequence update) 01-NOV-1998 (TrEMBLrel. 08, Last annotation update) INSIDE INTRON 5 (FRAGMENT). Saccharomycetales; NCBI_TaxID=4932; Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes; Saccharomycetales; Saccharomycetaceae; Saccharomyces. Mitochondrion. Saccharomyces cerevisiae (Baker's yeast). Mitochondrion. 7 AA; 859 MW; 75B7232362CDC460 CRC64; ດ : :

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G N Similarity 2; Conserv

Conservative

45.7%; Score 16; DB 8; L 100.0%; Pred. No. 4.7e+05; Live 0; Mismatches 0;

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P82929;
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01-MAR-2001 (TrEMBLrel. 16, La
01-MAR-2001 (TrEMBLrel. 16, La
MITOCHONDRIAL 28S RIBOSOMAL PI
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-!- SUBCELLULAR LOCATION: MITOCHONDRIAL.
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pec
Bovidae; Bovinae; Bos
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Gene 158:291-294(1995)
EMBL; U17178; AAA86692
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Danner D.B.,
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Pred. No. 4.7e+05;
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P70243;
01-FEB-1997
01-FEB-1997
01-AUG-1998
                                                                    Q9QVD3 PRELIMINARY; PRT; 8 AA.
Q9QVD3;
01-MAY-2000 (TrembLrel. 13, Created)
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01-JUL-1997
01-JUL-1997
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Eukaryota; Metazoa; (
Mammalia; Eutheria; )
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01-FEB-1997 (TrEMBLrel. 02, Last sequence update)
01-AUG-1998 (TrEMBLrel. 07, Last annotation update)
SKELETAL MUSCLE-SPECIFIC CALCIUM CHANNEL (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Submitted (MAY-1997) to the EMBL; AF001780; AAC33369.1; NON_TER 8 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Submitted (JUN-1996) to the EMBL/GenBank/DDBJ databases EMBL; x98325; CAA66969.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synechococcus sp. (strain PCC 8801
Bacteria; Cyanobacteria; Chroococci
  Mammalia;
                     Eukaryota;
                                        Rattus sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Calcium channel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EMBL; X98325; CAA66969.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ophoff R.A.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRAIN=129;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
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                                                           INOSITOL
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                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
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5 AFYG
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                                                           1,4,5-TRISPHOSPHATE BINDING
; Metazoa;
Eutheria;
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Chordata;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          D9C37DDB1861ADDE CRC64;
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Last sequence update)
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Pred. No. 4.7e
1; Mismatches
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Pred. No.
Craniata; Vert Sciurognathi;
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Sciurognathi;
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Bost Local S
Matches 1
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Best Local
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Wabbiltz P.A., Bowle J.H., Tyler M.J.,
"Peptides from the skin glands of the
"Peptides from the skin glands of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Konematsu T., Takcya H., Watanabe Y., Ozaki S., Yos Iwanaga S., Hirata M.;
"Putative inositol 1,4,5-trisphosphate binding prot cytosol.";
J. Biol. Chem. 267:6518-6525(1992).
SEQUENCE 8 AA; 1047 MW; D72415BB06C37041 CRC64;
  SEQUENCE FROM N.A. STRAIN=CV. ESSEX; MEDLINE-91367679;
                                                                                                            Glycine max (Soybean).

Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheopenkaryota; Viridiplantae; eudicotyledons; core eudicots;

Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;

eurosids I; Fabales; Fabaceae; Papilionoideae; Glycine.
                                                                                                                                                                                              049223;
01-JUN-1998 (TrEMBLrel. 06, Cr.
01-JUN-1998 (TrEMBLrel. 08, La:
01-NOV-1998 (TrEMBLrel. 08, La:
HMG-1-LIKE PROTEIN (FRAGMENT).
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SEQUENCE
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Eukaryota; Metazoa; Chordata; Craniata; Ve
Amphibia; Batrachia; Anura; Neobatrachia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-MAY-2000 (TrEMBLrel. 13, 01-MAY-2000 (TrEMBLrel. 13, 01-MAY-2000 (TrEMBLrel. 13,
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Aust. J. Chem. 52:0-0(1999).
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Amphibia; Batrachia;
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llarity 100.0%;
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    TISSUE~ROOTS;
PubMed~1891369;
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Australian buzzing
skin peptides from
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4.7e+05;
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a; Bufonoidea; Hylidae;
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Mahalingam R., Knap H.T.;
Submitted (FEB-1998) to the EMBL/GenBank/DDBJ databases
EMBL; AF047050; AAC03556.1; -
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P82065;
01-MAY-2000
01-MAY-2000
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"A plant DNA binding protein shares highly
with HMG-box proteins.";
Nucleic Acids Res. 19:4769-4769(1991).
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Steinborner S.T., Wabnitz P.A., Waugh R.J.,
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                      Coxiella burnetii.
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Eukaryota; Metazoa; Chordata; Craniata;
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STRAIN-NINE MILE PHASE I;
Willems H., Jaeger C., Baljer G.;
"Physical and genetic map of the obligate intracellular bacterium
            SEQUENCE FROM N.A.
                                         Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
                                                  Eukaryota; Metazoa;
                                                           Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                Caskey
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Mammalia; Eutheria; Primates;
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   TISSUE=PLACENTA;
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Baldini A., Lindsay E.A., Zhao
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Arosler C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,
Al Glodek A., Gong F., Gorrell J.H., Gu Z., Guban P., Harris M.,
Alarris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
Alali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
Alakimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
Alako P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
Aliu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
Aliu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.L.,
Alako P., Lei Y., Levitsky B., Murphy L., Muzny D.M., Nelson D.L.,
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Alako P., Lei Y., Levitsky B., Muznyby L., Muzny D.M., Nelson D.L.,
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Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T., Spier E., Spradling A.C., Stapleton M., Strong R., Sun E., Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang Z. Y., Wassarman D.A., Weinstock G.M., Weissenbach J., Williams S.M., Wooddage T., Worley K.C., Wu D., Yang S., Yao Q.A. Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu X., Smith Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
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NCBI_TaxID=7227;
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         SEQUENCE, AND FUNCTION.
TISSUE-CORPORA CARDIACA;
MEDLINE-98010462; PubMed-9350979;
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MEDLINE-98010462; PubMed-9350979;

Prodel R., Keliner R., Rapus J., Penzlin H., Gaede G.;

Tisolation and structural elucidation of eight kinins from retrocerebral complex of the American cockroach, Periplanet americana.";
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P82685;
                                                                  Periplaneta americana (American cockroach).
Bukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blattoidea; Blattidae; Periplaneta.
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Bukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta
Ptorygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blattoidea; Blattidae; Periplaneta.
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KININ-2 (PEA-K-2)
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MOD_RES 8 8
SEQUENCE 8 AA; 950 MW.
                                                        NCBI_TaxID=6978;
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1- FUNCTION: MEDIATES VISCERAL MUSCLE CONTRACTILE ACTIVITY
(MYOTROPIC ACTIVITY).
1- SIMILARITY: BELONGS TO THE KININ FAMILY.
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01-MAR-2001 (TrEMBLrel. 16, L
KININ-3 (PEA-K-3).
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01-MAR-2001 (TrEMBLrel. 16, C
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KININ-4 (PEA-K-4).
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Regul. Pept. 71:199-205(1997).
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda;
Pteryota; Neoptera; Orthopteroidea; Dictyoptera; Blattoidea; Blattidae; Periplaneta.
NCBI_TaxID=6978;
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Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Bla
Blattoidea; Blattidae; Periplaneta.
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"Isolation and structural elucidation
retrocerebral complex of the American
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TISSUE-CORPORA CARDIACA;
MEDLINE-98010462; PubMed-9350979;
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rican cockroach, Periplane
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blattoidea; Blattidae; Periplaneta.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE-98010462; PubMed=9350979; Predel R., Kellner R., Rapus J., Penzlin H., Gaede G.; Predel R., Kellner R., Rapus J., Penzlin H., Gaede G.; "Isolation and structural elucidation of eight kinins from the retrocerebral complex of the American cockroach, Periplaneta
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Predel R., Kellner R., Rapus J., Penzlin H., Gaede G.;
"Isolation and structural elucidation of eight kinins from the
retrocerebral complex of the American cockroach, Periplaneta
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-i- SIMILARITY: BELONGS TO THE KININ FAMILY.
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleos Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neotele Acanthomorpha; Acanthopterygii; Percomorpha; Atherinomorpha; Cyprinodontiformes; Aplocheilidae; Rivulinae; Terranatos. NCBI_TaxID=61836;
                                                                                                                                                                                                                                            01-MAY-2000 (TrEMBLrel. 13, Last sequence update) 01-MAY-2000 (TrEMBLrel. 13, Last annotation update) CYTOCHROME C OXIDASE SUBUNIT I (FRAGMENT). Terranatos dolichopterus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=92049376; PubMed=1719383; Shimasaki S., Gao L., Shimonaka M., "Isolation and molecular cloning of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EMBL; S8
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Matrix Biol. 15:39-47(1996).
EMBL; S83371; AAD14433.1; -.
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Mammalia; Eutheria;
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01-MAY-2000 (TrEMBLrel. 13, Last annotation update)
INSULIN-LIKE GROWTH FACTOR-BINDING PROTEIN-6, IGFBP-6.
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.
                                                                                                                                                                                                               Mitochondrion.
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jala U.M., Pelliniemi L.,
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"The evolution of diapause in the killifish family Rivulidae (Atherinomorpha, Cyprinodontiformes): A molecular phylogenetiblogeographic perspective.";
Evolution 53:1200-1216(1999).
EMBL; AF092421; AAF03041.1; ...
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<code>MEDLINE</code>-98008057; PubMed \sim 9581555; Hospital V., Prat A., Joulie C., Cherif "Human and rat testis express two mRNA s
                             TISSUE TESTIS;
                                                      Eukaryota; Metazoa;
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Jacobs H.T., Asakawa S., Araki T., Miura
"Conserved tRNA gene cluster in starfish
Curr. Genet. 15:193-206(1989).
EMBL; X16886; CAA34767.1; -.
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P82598;
01-OCT-2000
01-OCT-2000
01-MAR-2001
STRAIN-SPRET/EI;
Taylor B.A., Wnek C., Phillips S.J.;
Taylor B.A., Wnek C., Phillips S.J.;
"Multiple obesity QTLs identified in an intercross between Zealand obese) and the SM (small) mouse strains.";
Submitted (JUL-2000) to the EMBL/GenBank/DDBJ databases
EMBL; AF286200; AAG01474.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                      O9ET18;
01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Purification and characterization of a proliferation of hepatic stellate cells J. Biochem. 127:23-27(2000).
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                                                                                                                                                                                                                                                                                              Mus spretus (Western wild mouse).
Eukaryota; Metazoa; Chordata; Craniata; Ver
Mammalia; Eutheria; Rodentia; Sclurognathi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -i- FUNCTION: MAY ACT AS A NEGATIVE EFFECTOR IN
HEPATIC STELLATE CELLS (HSC). ALSO INHIBITS
ENDOTHELIAL CELLS AND 3T6 FIBROBLASTS.
-i- SIMILARITY: IDENTICAL TO THE 63-70 AA REGION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Rattus norvegicus (Rat).
Eukaryota; Metazoa; Chordata; Craniata; Vert
Mammalia; Eutheria; Rodentia; Sciurognathi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-CCT-2000 (TrEMBLrel. 15, Created)
01-CCT-2000 (TrEMBLrel. 15, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
38KDA NON-ARGINASE GROWTH INHIBITORY FACTOR (NAGIF)(FRAGMENT).
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thi; Muridae; Murinae; Rat
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Search completed: January 14, 2002, 07:53:46 Job time: 726 sec
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Copyright (c) 1993 - 2000 Compugen
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CAR sequence; au graft rejection.
                                                                                                                                           Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                         03-NOV-1998;
30-MAR-1999;
                                                                                                                   Mammalia
                                                                                                                                                                   Claudin-1 cell adhesion recognition sequence SEQ ID
                                                                                                                                                                                                    AAB06419;
                                                                                                                                                                                                                   AAB06419 standard; peptide;
         Blaschuck OW,
                                                                 03-NOV-1999;
                                                                                   11-MAY-2000
                                                                                                  WO200026360-A1
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                        (ADHE-) ADHEREX TECHNOLOGIES INC
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        Symonds JM,
                                         98US-0185908
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The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
                                                                                                                       Claim 43; Page 97; 121pp; English.
                                                                                                                                                                                                                WPI;
                                                                                                                                                     and across the skin -
                                                                                                                                                                    vasopermiability,
                                                                                                                                                                                Antibody modulation of claudin-mediated cell adhesion for increasing
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30-MAR-1999;
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50.08;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cell adhesion recognition sequence; CAR sequen inflammatory disease; cancer; graft rejection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAB06764 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              to the desired target site. conformation.
                                                                                                      Sequence
                                                                                                                                                                                                                                 Claim 70; Page 103; 121pp; English.
                                                                                                                                                                                                                                                                     vasopermiability,
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                                                                                                                                                                                                                                                                                                        WPI; 2000-365610/31
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30-MAR-1999;
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99US-0282029
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                                                                                                                                                                                                                                                                     for delivering drugs to tumors and the nervous
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                                                       77.1%;
50.0%;
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                                                                                                                                                                                                                                                                                                                              JM,
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RESULT
AAB06814
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claudin-6 modulating agent; claudin-9 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection; cyclic.
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•
              graft rejection
                               Claudin modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys and across the skin -
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                                                                                  Claudin cell adhesion recognition modulating sequence SEQ ID NO:
                                                                                                                         05-OCT-2000
                                                                                                                                                          AAB06916;
                                                                                                                                                                                          AAB06916 standard;
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30-MAR-1999;
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99US-0282029.
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Pred. No. 4.3e+05;
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30-MAR-1999;
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03-NOV-1998;
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The present sequence is a peptide which can be used in a claudin-mediated cell adhesion modulator. The claudin group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and this peptide can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, it can also be used to facilitate drug delivery
                                                                                                                                                                                                    Claudin-2 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection.
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30-MAR-1999;

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RESULT AAB06574
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30-MAR-1999;
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                                                                                                      Claim 49; Page 98; 121pp; English.
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present invention relates to the use of peptides as claudin-mediated
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37.5%;
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No. 4.3e+05;
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cell adhesion modulators. The claudin-2 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                        The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and ald wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
                                                                                                                                                                               Antibody modulation of claudin-mediated cell adhesion vasopermiability, for delivering drugs to tumors and t and across the {\tt skin} -
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30-MAR-1999;
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Sequence
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                                                                                                                                                      Claim 39; Page 96; 121pp; English.
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                            target site.
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37.5%;
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Pred. No.
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Query Match Best Local S Matches 3

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Score 24; DB Pred. No. 4.3e 2; Mismatches

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Best Local
                                                                                                                                                             Matches
                                                                                                                                                                                                                                                 The present invention relates to the use of peptides as claudin-mediated coll adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                                                                                                                                                                                                                                                                                                                                                                 Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin - \,
             28-SEP-2000
                                  AAB06583;
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30-MAR-1999;
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99US-0282029
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37.5%;
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                                                                                                                                                                                                                                                                                                                   Claudin-3 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                       Claudin-3 cyclic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
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30-MAR-1999;
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                                                           03-NOV-1999;
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Pred. No. 4.3e+05;
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Best Local S
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                                                                                                                                                                                                                                                                                                                    Claudin-4 modulating agent; cell adhesion recognition success; sequence; autoimmune disease; inflammatory disease;
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          Claim 58; Page 100; 121pp;
                                                                                                              Blaschuck OW,
                                                                                                                                                                 03-NOV-1998;
30-MAR-1999;
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                                                            Antibody modulation of claudin-mediated cell adhesion for increasing
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          English
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Pred. No. 4.3e+05;
Pred. No. 4.3e+05;
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                                         The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-4 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
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Sequence
                                                                                                                                                                                          Claim 61; Page 101; 121pp; English.
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30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                         Symonds JM,
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99US-0282029
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37.5%;
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                                                                                                                                                                                                                                                                                                                           BJ
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4.3e+05;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sequence;
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Query Match Best Local Similarity

68.6%; 37.5%;

Score 24; Pred. No.

DB 21; 4.3e+05;

Length

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AABO6876
ID AABC
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AAB06823
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Best Local (
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                                                                                                                                                                          The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-7 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and ald wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
                                                                                                                                                                                                                                                                                                                                                                                                                              Claudin-7 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection.
        28-SEP-2000
                        AAB06876;
                                     AAB06876 standard;
                                                                                                                                                                                                                                         Claim 76; Page 104; 121pp; English.
                                                                                                                                                                                                                                                         Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys and across the skin -
                                                                                                                                                                                                                                                                                                                                                                 03-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claudin-7
                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                          WPI; 2000-365610/31.
                                                                                                                                                                                                                                                                                                         Blaschuck OW,
                                                                                                                                                                                                                                                                                                                                         03-NOV-1998;
30-MAR-1999;
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                                                                                                             Conservative
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      (first entry)
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99US-0282029
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                                      peptide;
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                                                                                                                   68.68;
37.58;
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                                                                                                                    Score 24;
Pred. No.
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                                                                                                             Mismatches
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                                                                                                                    DB 21;
4.3e+05;
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AAB06917
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Best Local
                                                    Synthetic.
                                                                                                   Claudin-7
                                                                                                                    05-OCT-2000
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                                                                                                                                    AAB06917;
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The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-7 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                                                                                                                                                                CAR sequence; autoimmune disease; inflammatory disease; graft rejection.
                                                              Key
Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                03-NOV-1998;
30-MAR-1999;
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                   Modified-site
                                                                                                                                                                                                                                  Claudin-7 modulating agent; cell adhesion recognition sequence;
                                                                                                                                                                                                                                                                                                                                                                                                                            AAB06917 standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 79; Page 105; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2000-365610/31
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claudin-7 cyclic cell adhesion recognition sequence
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                                                                                                                                                                                                                                                                                 cell
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                                                                                                                                                                                                                                                                                                                             (first entry)
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99US-0282029
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                                                                                      Location/Qualifiers
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37.5%;
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"C-terminal amide"
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Pred. No.
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4.3e+05;
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RESULT 1
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XW Clau
XW Clau
XW Cell
XW cell
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AX MO20
XX Mo3-1
PR 03-1
YX ABO
XX MAMM
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XX WPI
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Best Local Similarity
Thes 3; Conserv
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                                                                                                                                                                                         03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                            03-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                              Mammalia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cell adhesion recognition sequence; CAR sequen inflammatory disease; cancer; graft rejection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claudin-6 modulating agent; claudin-9 modulating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claudin-6/9 cell adhesion recognition sequence SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 77; Page 104; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 and across the skin -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
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30-MAR-1999;
                            WPI; 2000-365610/31
                                                                                  Blaschuck OW,
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                                                                               Symonds JM,
                                                                                                                                                                                         98US-0185908.
99US-0282029.
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99US-0282029.
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37.5%;
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                                                                                  Gour BJ;
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Pred. No. 4.3e+05;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAR sequence; autoimmune disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 8;
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RESULT 1
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RESULT 22
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30-MAR-1999;
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                                                                                                                                                                                                                                                                   Claudin-6/9 cyclic cell adhesion recognition sequence SEQ
                                                                                                                                                                                                                                                                                                                                              AAB06779 standard; peptide; 8
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30-MAR-1999;
WPI; 2200-365610/31
                         Blaschuck OW,
                                                                                                                03-NOV-1999;
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99US-0282029
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50.0%;
                                                                                                                                                                                                                     cancer;
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                         Gour BJ;
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Pred. No. 4.3e+05;
1; Mismatches 2;
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The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-6 and claudin-9 groups of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to
                                                                                                                               Claim 73;
                                                                                                                                                                          Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
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30-MAR-1999;
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                                                                                                                                                                                                                             WPI; 2000-365610/31.
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99US-0282029
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                                                                                                      The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-6 and claudin-9 groups of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic conformation.
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                                                                                      Sequence
                                                                                                                                                                                                           Claim 73; Page 104; 121pp; English.
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30-MAR-1999;
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99US-0282029.
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Pred. No. 4.3e+05;
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RESULT 2
AAB06804
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30-MAR-1999;
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                                                                                                              Score 22; DB 21;
Pred. No. 4.3e+05;
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Maximum Match 100%
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     Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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     protein search, using sw model
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Query
Match
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1: /cgn2_6/ptodata/2/laa/5A_COMB.pep:*

2: /cgn2_6/ptodata/2/laa/5B_COMB.pep:*

3: /cgn2_6/ptodata/2/laa/6A_COMB.pep:*

4: /cgn2_6/ptodata/2/laa/6B_COMB.pep:*

5: /cgn2_6/ptodata/2/laa/PCTUS_COMB.pep:*

6: /cgn2_6/ptodata/2/laa/backfiles1.pep:*
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US-09-258-754-268
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US-08-684-2198-36
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US-08-467-472C-2
US-08-467-472C-3
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US-09-384-061-2
US-09-384-061-3
US-09-384-061-3
US-09-384-061-3
US-09-461-697-405-3
US-09-461-697-405-3
US-08-454-950-7
US-08-454-950-7
US-08-454-949-7
US-08-454-949-7
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US-08-651-1798-3
US-08-651-1798-3
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US-08-931-5861-5
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4.527 Million cell updates/sec
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RESULT 2 US-09-042-107-268 US-09-042-107-268 ; Sequence 268, Application US/09042107 ; Patent No. 6232287 ; GENERAL INFORMATION: ; APPLICANT: RUOSlahti, Erkki ; APPLICANT: Pasqualini, Renata ; TITLE OF INVENTION: Molecules that Home to Various Selected Organ: ; TITLE OF INVENTION: Tissues ; FILE REFERENCE: P-LJ 2892	Query Match 51.4%; Score 18; DB 4; Length 7; Best Local Similarity 60.0%; Pred. No. 1.6e+05; Matches 3; Conservative 0; Mismatches 2; Indels 0; Qy 1 wkxxs 5	RESULT 1 US-09-258-754-268 ; Sequence 268, Application US/09258754 ; Patent No. 6174687 ; GENERAL INFORMATION: APPLICANT: Ruoslahti, Erkki APPLICANT: Pasqualini, Renata APPLICANT: Pasqualini, Renata APPLICANT: Pajotte, Daniel ; TITLE OF INVENTION: Methods of Identifying Lung Homing Molecules TITLE OF INVENTION: Membrane Dipeptidase ; FILE REFERENCE: P-LJ 344 3 ; CURRENT APPLICATION NUMBER: US/09/258,754 ; CURRENT FILING DATE: 1999-02-26 ; EARLIER APPLICATION NUMBER: 09/042,107 ; EARLIER FILING DATE: 1998-03-13 ; NUMBER OF SEQ ID NOS: 452 ; SOFTWARE: Patentin Ver. 2.0 ; SEQ ID NO 268 ; LENGTH: 7 ; TYPE: PRT ORGANISM: Artificial Sequence ; COTHER INFORMATION: Description of Artificial Sequence: Synthetic US-09-258-754-268	ALIGNMENTS	28 16 45.7 4 4 US-08-435-568A-19 Sequence 29 16 45.7 4 4 US-08-682-767-29 Sequence 30 16 45.7 5 1 US-07-657-7998-36 Sequence 31 16 45.7 5 1 US-08-068-947-3 32 16 45.7 5 1 US-08-068-947-3 33 16 45.7 5 1 US-08-068-947-3 34 16 45.7 5 1 US-08-068-947-3 35 16 45.7 5 1 US-08-325A-19 Sequence 36 45.7 5 1 US-08-32-0718-1 Sequence 37 16 45.7 5 1 US-08-32-0718-2 Sequence 38 16 45.7 5 1 US-08-346-0718-2 Sequence 45.7 5 1 US-08-486-0578-2 Sequence 46 45.7 5 1 US-08-486-0578-2 Sequence 47 16 45.7 5 1 US-08-416-007-1 Sequence 48 45.7 5 1 US-08-416-007-5 Sequence 49 16 45.7 5 1 US-08-416-007-5 Sequence 40 16 45.7 5 1 US-08-475-263-97 Sequence 41 16 45.7 5 1 US-08-475-751-1 Sequence 42 16 45.7 5 1 US-08-475-751-1 Sequence 43 16 45.7 5 2 US-08-475-751-5 Sequence 44 16 45.7 5 2 US-08-475-751-5 Sequence 45 16 45.7 5 2 US-08-475-032-1 Sequence 46 16 45.7 5 2 US-08-475-032-1 Sequence 47 16 45.7 5 2 US-08-475-032-1 Sequence 48 16 45.7 5 2 US-08-475-032-1 Sequence 49 16 45.7 5 2 US-08-475-032-1 Sequence 50 16 45.7 5 2 US-08-477-362-97 Sequence
or S	Gaps 0;	Using		19, Appl 30, Appl 30, Appl 1, Appl 1, Appl 19, Appl 19, Appl 11, Appl 11, Appl 12, Appl 12, Appl 12, Appl 13, Appl 14, Appl 15, Appl 16, Appl 17, Appl 18, Appl 197, A

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RESULT 3
US-08-484-438-25
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; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-042-107-268
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CURRENT FILING DATE: 1998-03-13
NUMBER OF SEQ ID NOS: 436
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 268
LENGTH: 7
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Patent No. 5811098 5780031
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TELEFAX: (212) 869-8864/97
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 25:
                                                                                                                                 PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/
PILLING DATE: 24-NOV-1992
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Misrock, S. Leslie
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,438
FILING DATE: 07-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
APPLICANT:
APPLICANT:
                                                                       REGISTRATION NUMBER: 18,872
REFERENCE/DOCKET NUMBER: 5624-230
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Hellstr m, Ingegerd
APPLICANT: Hellstr m, Karl E.
APPLICANT: HELSTR M, Karl E.
APPLICANT: HER4 HUMAN RECEPTOR TYROSINE KINASE
                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
                                                                                                                                                                                                                                                  APPLICATION NUMBER: US 08/150,704 FILING DATE: 10-NOV-1993 CLASSIFICATION: 530
                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: 08/3 FILING DATE: 14-OCT-1994
                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY: U.S.A. ZIP: 10036-2711
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                                                         TELEPHONE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1155 Avenue of the Americas
                                     : (212) 790-9090
(212) 869-8864/9741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Plowman, Gregory D.
Culouscou, Jean-Michel
Shoyab, Mohammed
Siegall, Clay B.
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60.0%;
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Pred. No. 1.6e+05;
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Query Match
Best Local Similarity
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Best Local Similarity 33.3
Matches 2; Conservative
                                                                                                                                                                        TELEBAX: (204)
TELEBAX: (204)
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
SEQUENCE TARRETTERISTICS:
TRUCTH: 7 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
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TOPOLOGY: unl
MOLECULE TYPE:
                                                                                                                                                                                                                                                 FILING DATE: 04-APR-1988
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 833-7533
                                                                                                                                                                                                                                                                                                            CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION UNMBER: US 07/589,003
FILING DATE: 27-SEP-1990
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                       OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICÂNT: Matsueda, Gary R.
TITLE OF INVENTION: Antibodies That Bind To '2-Antiplasmin
TITLE OF INVENTION: Crosslinked To Fibrin Which Do No. 5582862 Inhibit Plasma
TITLE OF INVENTION: '2-Antiplasmin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS
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CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
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                                                                                                                                                                                                                                                                                APPLICATION NUMBER: FILING DATE: 04-AP
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                                                                                                                                                                      TYPE: amino acid
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2 WKPGS
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                                                                                                                                                                                                                                  (202) 833-8716
                                                            Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Reed, Guy L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           unknown
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                                                                           48.6%;
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                                                            0; Mismatches
                                                                           Score 17; DB 1;
Pred. No. 1.6e+05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 17; DB 2;
Pred. No. 1.6e+05;
2; Mismatches 2
                                                                                           Length 7;
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                                                            Indels
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US-08-680-634-2 ; Sequence 2, Application US/08680634

RESULT

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                                                                                                                                                                                                       Sequence 2, Application US/08977680 Patent No. 6280730 GENERAL INFORMATION:
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Best Local 9
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: PC-DOS/MS-DOS
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                     APPLICANT: Reed, Guy L.
APPLICANT: Haber, Edgar
APPLICANT: Haber, Edgar
APPLICANT: Matsudda, Gary R.
APPLICANT: Matsudda, Gary R.
TITLE OF INVENTION: Antibodies That Bind To '2-Antiplasmin
TITLE OF INVENTION: Crosslinked To Fibrin which Do No. 6280730 Inhibit Plasma
TITLE OF INVENTION: '2-Antiplasmin
NUMBER OF SEQUENCES: 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:

APPLICATION UNMER: US 07/589,003
FILING DATE: 27-SEP-1990
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/980,520
FILING DATE: 01-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/943,372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: Antibodies That Bind To '2-Antiplasmin TITLE OF INVENTION: Crosslinked To Fibrin Which Do No. 5831031 Inhibit Plasma TITLE OF INVENTION: '2-Antiplasmin'
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APPLICANT: Haber, Edg
APPLICANT: Matsueda,
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CURRENT APPLICATION DATA:
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CORRESPONDENCE ADDRESS:
                                                     CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADDRESSEE: STERNE STREET: 1100 New Y CITY: Washington STATE: D.C.
STREET:
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TYPE: a
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                                   ADDRESSEE:
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             E: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
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Pred. No. 1.6e+05;
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Best Local S
Matches 3
                                                                                                                                                                                                                                                                                 Patent No. 5985541 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                  Sequence 36, Application US/08687219B Patent No. 5985541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/
FILING DATE: 27-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION UMBER: US 07/
FILING DATE: 04-APR-1988
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US 08/0
FILING DATE: 16-UUL-1996
PRIOR APPLICATION DATA: 07/0
APPLICATION NUMBER: US 07/0
FILING DATE: 01-DEC-1992
PRIOR APPLICATION DATA: APPLICATION DATA: 07/943
                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                              CORRESPONDENCE ADDRESS:
ADDRESSEE: OLIFF & BERRIDGE,
STREET: 700 South Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                               APPLICANT: JOLIVET-REYNAUD, COLETTE
TITLE OF INVENTION: PEPTIDE CAPABLE OF BEING RECOGNIZED BY
TITLE OF INVENTION: ANTIBODIES RECOGNIZING THE C33 ANTIGEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION: 530 PRIOR APPLICATION DATA:
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MEDIUM TYPE: Floppy disk
 SOFTWARE:
CURRENT APP
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nes 3; Conserv
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                                                                                                                                    STATE:
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ARE: PatentIn Release #1.0, Version #1.30 APPLICATION DATA:
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KIM, JUDITH U.
KIM, JUDITH U.
ACT NITMBER: 40,679
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(202) 371-2540
DR SEQ ID NO: 2:
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; Pred. No. 1.6e
0; Mismatches
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Street
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∠.6e+05;
2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 7;
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Query Match
Best Local Similarity
Watches 3; Conserva
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEFAX: 703 836-2787 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                         INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ZIP: 10010
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" FLOPPY DISC
MEDIUM TYPE: 1.5" FLOPPY DISC
MEDIUM TYPE: 1.5" FLOPPY DISC
MEDIUM TYPE: 1.5" FORMAL TYPE: 
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FILING DATE: 28-JANUARY-1993
ATTORNEY/AGENT OF THE PROPERTY AGENT OF THE PROPERTY OF THE PRO
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/742,908
FILING DATE: 9-AUGUST-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OPERATING SYSTEM: MS-D
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
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TITLE OF INVENTION: LANTHIONINE BRIDGED PEPTIDES
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEPHONE: 703 836-6400
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FILING DATE: 25-JUL-1995
ATTORNEY/AGENT INFORMATION:
NAME: Berridge, William P.
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                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: ROBINSON, WILLIAM R.
REGISTRATION NUMBER: 27,224
REFERENCE/DOCKET NUMBER: LKR-9122B
REFERENCE/DOCKET NUMBER: LKR-9122B
TELECOMMUNICATION INFORMATION:
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                                                                                                                                                        SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                               TELEFAX: (21.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/0 FILING DATE: 6-JUNE-1995 CLASSIFICATION: 514
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STATE: NY
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ZIP: 10016
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TYPE: AMINO ACID TOPOLOGY: LINEAR
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; PUBLICATION DATE: ; RELEVANT RESIDUES US-08-467-472C-2
                           Query Match
Best Local Similarity 40.
Matches 2; Conservative
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ORIGINAL SOURCE: AMINO ACIDS LISTED IN SEQUENCE
ORIGINAL SOURCE: INC.,
ORIGINAL SOURCE: 3700 MARKET STREET, PHILADELPHI
IMMEDIATE SOURCE: SYNTHESIZED PEPTIDE
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PUBLICATION INFORMATION:
AUTHORS: SHIBA, TETSUO
TITLE: CHEMISTRY OF LANTHIONINE PEPTIDES
JOURNAL: BIOPOLYMERS
                                                                                                                                                                                                                                                                                                                                                                                                                                 ISSUE: 511 -
PAGES: 511 -
1986
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VOLUME: JOHN WILEY AND SONS, INC.
ISSUE: SUPPLEMENTARY
PAGES: 511 - 519
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TITLE: PEPTIDES WITH SULFIDE BRIDGES AND
JOURNAL: PROCEEDINGS OF THE 11TH AMERICAN
JOURNAL: PREFIDE
                                                                                                                                                DOCUMENT NUMBER: FILING DATE:
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Pred. No.
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 8
TYDE
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ANTI-SENSE: N/A
FRAGMENT TYPE: INTERNAL
ORIGINAL SOURCE: AMINO ACIDS LISTED IN SEQUENCE -
ORIGINAL SOURCE: 1700,
ORIGINAL SOURCE: 3700 MARKET STREET, PHILADELPHIA, PA
IMMEDIATE SOURCE: SYNTHESIZED PEPTIDE
POSITION IN GENOME: N/A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US 07/
FILING DATE: 9-AUGUST-1991
APPLICATION NUMBER: US 08/
FILING DATE: 28-JANUARY 19
ATTORNEY/AGENT INFORMATION:
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MEDIUM TYPE: 3.5" FLOOPY DISC
COMPUTER: COMPAQ - IBM COMPATIBLE
OPERATING SYSTEM: MS-DOS Version 6.2
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
                                                                                                                                                                 OTHER INFORMATION: thereby
OTHER INFORMATION: a -S- bridge is present between Cys and PUBLICATION INFORMATION:
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DESCRIPTION: PEPTIDE
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TELEPHONE: (212) 697-3355
TELEPAX: (212) 557-5635
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                                                                                                                                                                                                                            LOCATION: -4
IDENTIFICATION METHOD:
IDENTIFICATION METHOD:
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OTHER INFORMATION: Wate
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CITY: NEW YORK
STATE: NY
                                                                                      AUTHORS: JUNG, GUNTHER
TITLE: PEPTIDES WITH SULFIDE BRIDGES AND
JOURNAL: PROCEEDINGS OF THE 11TH AMERICAN
JOURNAL: PEPTIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: ROBINSON, WILLIAM R.
REGISTRATION NUMBER: 27,224
REFERENCE/DOCKET NUMBER: LKR-9122B
                                              JOURNAL: SYMPOSIUM VOLUME: ESCOM (LEIDEN 1990)
                                                                                                                                                                                                                                                                                                                             NAME/KEY: ENANTIOMER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: FILING DATE: 6-JUN
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ZIP: 10016
                                      ISSUE:
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865 - 869
1990
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99 PARK AVENUE
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28-JANUARY-1993
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US-08-467-472C-4
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Best Local S
Matches 2
                                                                                                                                                                                                                                                                                                                        Sequence 4, Application US/08467472C Patent No. 6028168
                                    COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" FLOPPY DISC
COMPUTER: COMPAQ - 1BM COMPATIBLE
OPERATING SYSTEM: MS-DOS VERSION 6..
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION UMBER: US/08/467,472C
FILLING DATE: 6-JUNE-1995
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FILING DATE:
FUBLICATION DATE:
PUBLICATION TRESIDUES IN SEQ ID NO: 3
PUBLICATION INFORMATION:
ANTHORS: BEAN, MARK F.
                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
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AUTHORS: SHIBA, TETSUO
TITLE: CHEMISTRY OF LANTHIONINE PEPTIDES
                                                                                                                                                                                                                                         APPLICANT: GOODMAN, MURRAY
TITLE OF INVENTION: LANTHIONINE BRIDGED PEPTIDES
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
            CLASSIFICATION: 514
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PAGES: 443 - 445
DATE: 1990
DOCUMENT NUMBER:
                                                                                                                                                           COUNTRY: USA
ZIP: 10016
                                                                                                                                                                                                   STREET: 99 PARK
CITY: NEW YORK
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nes 2; Conservative
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PUBLICATION DATE:
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DOCUMENT NUMBER:
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RELEVANT RESIDUES IN SEQ ID NO:
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 APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE:
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JOHN WILEY AND SONS, INC.
SUPPLEMENTARY
511 - 519
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: PROCEEDINGS OF THE 11TH AMERICAN
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Pred. No. 1.6e+05;
1; Mismatches 2;
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FILING DATE: 9-AUGUST-1991
APPLICATION NUMBER: US 08/02
FILING DATE: 28-JANUARY-1993
ATTORNEY/AGENT INFORMATION:

us 08/021,606

ROBINSON, WILLIAM R

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TELEX: NONE
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PUBLICATION INFORMATION:
AUTHORS: JUNG, GUNTHER
TITLE: PEPTIDES WITH SULFIDE BRIDGES AND
JOURNAL: PROCEEDINGS OF THE 11TH AMERICAN
JOURNAL: PEPTIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FRAGMENT TYPE: INTERNAL
ORIGINAL SOURCE: AMINO ACIDS LISTED IN SEQUENCE -
ORIGINAL SOURCE: INC.,
ORIGINAL SOURCE: 3700 MARKET STREET, PHILADELPHIA, PA
                                                                                                                                                                         PUBLICATION DATE:
RELEVANT RESIDUES IN SEQ ID NO:
PUBLICATION INFORMATION:
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 697-3355
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AUTHORS: SHIBA, TETSUO
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POSITION IN GENOME:
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OTHER INFORMATION: wate
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VOLUME:
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                                                                                                                                                                                                                                 FILING DATE:
                                                                                                                                                                                                                                                                                                                                  AUTHORS: SHIBA, TETSUO
TITLE: CHEMISTRY OF LANTHIONINE PEPTIDES
                                                                                                                                                                                                                                                                                                                                                                                                     PUBLICATION DATE:
RELEVANT RESIDUES IN SEQ ID NO:
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                     JOURNAL:
                                     JOURNAL:
                                                                                                                                                          AUTHORS:
                                                                                                                                                                                                                                               DOCUMENT NUMBER:
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DATE: 1990
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511 - 519
                                                  TANDEM MASS SPECTROMETRY
PROCEEDINGS OF THE 11TH AMERICAN
                                                                                                                                        IDENTIFICATION OF A THIOETHER
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JOHN WILEY AND SONS,
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ESCOM (LEIDEN 1990)
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; FILING DATE:
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US-08-467-472C-4
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                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
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TELEPHONE: (212) 697-3355
TELEFAX: (212) 557-5635
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: ASCII
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIOM TYPE: 3.5" FLOPPY DISC
COMPUTER: COMPAQ - IBM COMPATIBLE
OPERATING SYSTEM: MS-DOS Version 6.2
                                                                  FRAGMENT TYPE: INTERNAL
ORIGINAL SOURCE: AMINO ACIDS LISTED IN SEQUENCE
ORIGINAL SOURCE: INC.,
                                                                                                                                                                                                                                                                                                                                                FILING DATE: 28-JANUARY-
ATTORNEY/AGENT INFORMATION:
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PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
                                                                                                              HYPOTHETICAL: N,
ANTI-SENSE: N/A
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DESCRIPTION:
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                                                        ORIGINAL SOURCE:
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                            OSITION IN GENOME:
                                          MMEDIATE SOURCE:
                                                                                                                                                                        TYPE: AM:
TOPOLOGY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITY: NEW YORK
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NAME/KEY:
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ENANTIOMER
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                                                         3700 MARKET STREET,
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STRUCTURE
                                                         PHILADELPHIA,
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1.6e+05;
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99 PARK AVENUE

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; DOCUMENT NUMBER:
; FILING DATE:
; PUBLICATION DATE:
; RELEVANT RESIDUES IN SEQ ID
US-09-384-061-2
                                                                                                                    RESULT 12
US-09-384-061-3
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Best Local Similarity
Thes 2; Conserv
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DOTE:
FILING DATE:
PUBLICATION DATE:
RELEVANT RESIDUES IN SEQ ID NO: 2.
RELEVANT RESIDUES IN SEQ ID NO: 2.
PUBLICATION INFORMATION:
AUTHORS: SHIBA, TETSUO
TITLE: CHEMISTRY OF LANTHIONINE PEPTIDES
JOURNAL: BIOPOLYMERS
'OLUME: JOHN WILEY AND SONS, INC.
"""DLEMENTARY
                                                           Sequence 3, Application US/09384061 Patent No. 6268339
GENERAL INFORMATION:
APPLICANT: GOODMAN, MURRAY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PUBLICATION INFORMATION:
AUTHORS: BEAN, MARK F.
TITLE: IDENTIFICATION OF A THIOETHER
TITLE: BY-PRODUCT
                              APPLICANT: GOODMAN, TITLE OF INVENTION: NUMBER OF SEQUENCES:
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OTHER INFORMATION:
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RELEVANT RESIDUES IN SEQ ID
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DATE: 1990
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PROCEEDINGS OF THE 11TH AMERICAN
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ESCOM (LEIDEN 1990)
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BROOKS HAIDT HAFFNER & DELAHUNTY
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Pred. No. 1.6e+05;
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DOCUMENT NUMBER:
FILING DATE:
PUBLICATION DATE:
RELEVANT RESIDUES IN SEQ ID NO
PUBLICATION INFORMATION:
AUTHORS: SHIBA, TETSUO
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DESCRIFTICAL: N/..

HYPOTHETICAL: N/A

HYPOTHETICAL: N/A

TO DE: INTERNAL

AMINO AC
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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ORIGINAL SOURCE: AMINO ACIDS LISTED IN SEQUENCE
ORIGINAL SOURCE: INC.,
ORIGINAL SOURCE: 3700 MARKET STREET, PHILADELPHI
IMMEDIATE SOURCE: SYNTHESIZED PEPTIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REGISTRATION NUMBER: 27,224
REFERENCE/DOCKET NUMBER: TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 697-3355
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/384,061
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MEDIUM TYPE: 3.5" FLOPPY DISC
                                                                                                                                                                                                                                                                                                                                                     PUBLICATION INFORMATION:
AUTHORS: JUNG, GUNTHE
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NAME: ROBINSON, WILLIAM R.
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APPLICATION NUMBER:
FILING DATE:
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TITLE: F
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CLASSIFICATION:
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                                               JOURNAL: BIOPOLYMERS
VOLUME: JOHN WILEY AND SONS, INC.
                                                                   AUTHORS: SHIBA, TEISUU
TITLE: CHEMISTRY OF LANTHIONINE PEPTIDES
                                                                                                                                                                                                                                                                                                               JOURNAL:
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                                    ISSUE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LOCATION:
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SUPPLEMENTARY
511 - 519
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Best Local S
INFORMATION FOR SEQ ID NO:
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MEDIUM TYPE: 3.5" FLOPPY DISC
COMPUTER: COMPAQ - IBM COMPAT
                                                                                                                                                                                                                                             SOFTWARE: ASCII
CURRENT APPLICATION DATA:
                                                                                                           APPLICATION NUMBER: US 08/02 FILING DATE: 28-JANUARY-1993 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                    CLASSIFICATION: PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: GOODMAN, TITLE OF INVENTION: NUMBER OF SEQUENCES:
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RELEVANT RESIDUES IN SEQ ID NO:
PUBLICATION INFORMATION:
                                                     REFERENCE/DOCKET NUMBER: LKR-9122B
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                                                                                                                                                         APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                      STREET: 99 PARI
CITY: NEW YORK
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TITLE: I
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                                                                                                                                                                                                                                                                        OPERATING SYSTEM: MS-DOS Version 6.2
                                        TELEPHONE:
                                                                                NAME: ROBINSON, WILLIAM R. REGISTRATION NUMBER: 27,22
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RELEVANT RESIDUES
RELEVANT RESIDUES
                          TELEFAX:
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1990
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PROCEEDINGS OF THE 11TH AMERICAN
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IDENTIFICATION OF A THIOETHER
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(212) 557-5635
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US-09-384-061-4
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                                                                                                                                                                                                                                                                                                                                                                                                         PUBLICATION DATE:
RELEVANT RESIDUES IN SEQ ID NO:
PUBLICATION INFORMATION:
AUTHORS: SHIBA, TETSUO
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PUBLICATION DATE:
RELEVANT RESIDUES IN SEQ ID
PUBLICATION INFORMATION:
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                                                                                                                      JOURNAL:
VOLUME:
                                                                                                                                                                                                                 TITLE:
                                                                                                                                                                                                                                                                                                                                     ISSUE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AUTHORS: JUNG, GUNTHER TITLE: PEPTIDES WITH SULFIDE BRIDGES AND JOURNAL: PROCEEDINGS OF THE 11TH AMERICAN
           PUBLICATION DATE:
RELEVANT RESIDUES
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                                                                  DOCUMENT NUMBER:
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PROCEEDINGS OF THE 11TH AMERICAN
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JOHN WILEY AND SONS, INC
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ESCOM (LEIDEN 1990)
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Query Match Best Local Similarity

48.68; 40.08;

Score 17; DB 4; Pred. No. 1.6e+05;

Length 8;

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Best Local Similarity 100.
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING
TITLE OF INVENTION: AND TREATING CONDITIONS, DISORDERS, OR DISEASES INVOLVING
TITLE OF INVENTION: CELL DEATH
FILE REFERENCE: 10001-005-999
CURRENT APPLICATION NUMBER: US/09/461,697
CURRENT FILING DATE: 1999-12-14
NUMBER OF SEQ ID NOS: 466
SOFTWARE: FASLSEQ for Windows Version 4.0
SEQ ID NO 405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 3, Application US/08079445 Patent No. 5440016
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Patent No. 6277974
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APPLICANT: Thomas, Mary Beth
APPLICANT: Portbury, Stuart D.
APPLICANT: Puranam, Kasturi
APPLICANT: Katz, Lawrence C.
                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION: APPLICANT: Blonde
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PAtentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                  APPLICANT: Pinilla, Clemencia
APPLICANT: Eichler, Jutta
APPLICANT: Eichler, Jutta
APPLICANT: Houghten, Richard A.
TITLE OF INVENTION: PEPTIDES HAVING ANTI-MICROBIAL,
TITLE OF INVENTION: HEMOLYTIC, ANTI-MELITTIN OR ANTI-ENZYMATIC ACTIVITY
                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
ATTORNEY/AGENT INFORMATION:
                               APPLICATION NUMBER: US/08/079,445 FILING DATE: 18-JUN-1993
                                                                                                                                                                                                                        CITY: San Diego
STATE: California
                                                                                                                                                                                                                                                           STREET:
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                 CLASSIFICATION:
                                                                                                                                                                                                     COUNTRY:
                                                                                                                                                                                                                                                                               ADDRESSEE:
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                                                                                                                                                                                                                                                           E: CAMPBELL AND FLORES
4370 La Jolla Village Drive,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Application US/09461697
                                                                                                                                                                                                     United States of America
                                                                                                                                                                                                                                                                                                                                                                                                                                 Blondelle, Sylvie E.
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                                                                                                                                                                                                                                                             Suite 700
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RESULT 16
US-07-840-077A-7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 7, Application US/07840077A Patent No. 5443816 GENERAL INFORMATION:
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INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
LENGTH: 4 amino acids
                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb
MEDIUM TYPE: Storage
COMPUTER: IBM PC/XT/AT, IBM PS/2 or
COMPUTER: Compatibles
OPERATING SYSTEM: PC-DOS or MS-DOS
SOFTWARE: Wordberfect 6.0a for Windows
CURRENT APPLICATION DATA:
ADDITORATION SUMMERS. IS (77.84.0.077a)
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OTHER INFORMATION:
FEATURE:
            APPLICATION NUMBER: 07/816,6
FILING DATE: 03-JAN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Deborah A. Peacock
REGISTRATION NUMBER: 31,649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-
TELECOMMUNICATION INFORMATION:
                                                                                            CLASSIFICATION:
PRIOR APPLICATION DATA:
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CORRESPONDENCE ADDRESS:
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TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                   STREET: 4261 Ball
CITY: Albuquerque
STATE: NM
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                                                                                                                                  APPLICATION NUMBER: US/07 FILING DATE: 20-FEB-1992
                                                                                                                                                                                                                                                                                                                 COUNTRY:
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87109-5802
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100.0%; Pred. No.
tive 0; Mismatcl
                                                                                                                                                                                                                                                                                                                                                                                                                                      Pharmaceutical Preparation and Method
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/note= "Xaa=any amino acid"
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/note= "Xaa
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                                                                                 07/816,477
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RESULT 17
US-08-454-950-7
; Sequence 7, Application US/08454950
; Patent No. 5690905
; Patent Temporamorion:
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Best Local Similarity
Watches 2; Conserva
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; ANTI-SENSE:
US-08-454-950-7
                                                                                                                                                                             APPLICATION NUMBER: 07/816,47
FILING DATE: 03-CAN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Deborah A. Peacock
REGISTRATION NUMBER: 31,649
TELECOMMUNICATION INFORMATION:
TELEPHONE: (505) 242-9677
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEPHONE: (505) 242-9677
TELEFAX: (505) 243-2542
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
                                                                                                                                   TELEPHONE: (505) 243-254
TELEFAX: (505) 243-254
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TENGTH: 4 um...d
TYPE: amino acid
STRANDEDNESS: sin
TOPOLOGY: linear
MOLECULE TYPE: Pept
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                                                                                                             SEQUENCE CHARACTERISTICS:
LENGTH: 4 amino acids
                                                                                                                                                                                                                                                                                                                             CLASSIFICATION: 424
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
                                MOLECULE TYPE: HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: 07/8 FILING DATE: 20-FEB-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb
MEDIUM TYPE: Storage
COMPUTER: IBM PC/XT/AT, IBM PS/2 or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY: U.S.A. ZIP: 87109-5802
                                                                                TYPE: amino acid
STRANDEDNESS: si
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                                                                TOPOLOGY:
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                                                                                                                                             (505) 243-2542
(507) TD NO: 7:
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Rhodes, Buck A.
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s 0;
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; OTHER INFORMATION: ; OTHER INFORMATION: US-08-434-761-3
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Best Local Similarity
Thes 2; Conserve
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                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: (619) 535-894
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 01
FILING DATE: 18-JUN-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                              FEATURE:
                                                                                                                                                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS:
LENGTH: 4 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER: P-TELECOMMUNICATION INFORMATION: TELEPHONE: (619) 535-9001
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CORRESPONDENCE ADDRESS:
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                                                                                                                                                FEATURE:
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                                                                                                                                                           NAME/KEY: Modified LOCATION: 4 OTHER INFORMATION: OTHER INFORMATION:
                                                                                                                                                                                                                                             OTHER INFORMATION: OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: FILING DATE:
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CITY: San Diego
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Campbell, Cathryn A. REGISTRATION NUMBER: 31,81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CLASSIFICATION:
                                                                                                            LOCATION:
                                                                                                                               NAME/KEY: Modified-site
                                                                                                                                                                                                                                                                             LOCATION:
                                                                                                                                                                                                                                                                                            NAME/KEY:
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                                                                                                                                                                                                                                                                                                                                             amino acid
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4370 La Jolla Village Drive, Suite 700
                                                                                                                                                                                                                                                                                                                                                                                                          (619) 535-8949
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pinilla, Clemencia
Eichler, Jutta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       United States of America
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PEPTIDES HAVING ANTI-MICROBIAL,
HEMOLYTIC, ANTI-MELITTIN OR ANTI-ENZYMATIC ACTIVITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            45.7%; Score 16;
100.0%; Pred. No.
tive 0; Mismatch
45.7%; Score 16; DB 1; Length 4; 100.0%; Pred. No. 1.6e+05;
                                                                               /note= "C-terminal amino acid
amidated"
                                                                                                                                                             /label= Xaa
/note= "Xaa=any amino acid"
                                                                                                                                                                                                                                             /label= Xaa
/note= "Xaa=KFmoc"
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Query Match
Best Local Similarity

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                                                                                                                                                                                                                                                           RESULT 20
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                                                                                                                                                                                  Sequence 7, Application US/08454949 Patent No. 5759516 GENERAL INFORMATION:
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Best Local Similarity
Matches 2; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATTORNEY/AGENT INFORMATION:

NAME: Malinoski, Lynn
REGISTRATION UMBER: 38,788
REFERENCE/DOCKET NUMBER: UPN-
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEPHONE: (215)568-3100
TELEFAX: (215)568-3439
INFORMATION FOR SEQ ID NO: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*)
                                                                       TITLE OF INVENTION: POPULATION: Pharmacon of INVENTION: Pharmacon of Sequences: 7
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
LENGTH: 4
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: WORDPERFECT CURRENT APPLICATION DATA:
                                                                                                                                              APPLICANT: Zamora, Paul O. APPLICANT: Rhodes, Buck A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz and No.
STREET: One Liberty Place, 46th Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Nutt, R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Hirschmann, Ralph
APPLICANT: Spanevello, Rolando
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES:
 STREET: 420.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US/08/:
FILING DATE: NOV. 14, 1994
CLASSIFICATION: 530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: U
ZIP: 19103
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CITY: Philadelphia
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                                                        DDRESSEE:
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                                     4261 Balloon Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Nutt, Ruth
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                                                          RhoMcd Incorporated
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                                                                                                           Pharmaceutical Preparation and Method
                                                                                                                             Peptide-Metal Ion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US/08/338,890B
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0. 1.6e+05;
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Best Local Similarity
"~*rhes 2; Conserv
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US-08-454-949-7
                                                                                                                                                                                                                                                                                                                                                          Sequence 8, Application US/08671487A
Patent No. 5955577
Patent No. 5955577
GENERAL INFORMATION:
APPLICANT: MAYO, KEVIN H.
TITLE OF INVENTION: SYNTHETIC APPROACH TO DESIGNED CHEMICAL
TITLE OF INVENTION: STRUCTURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE: 31-MAY-1995

PRIOR APPLICATION 424

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/840,07

FILING DATE: 20-FEB-1992
APPLICATION NUMBER: 07/816,47

FILING DATE: 03-JAN-1992

APPLICATION NUMBER: 07/816,47

FILING DATE: 03-JAN-1992

APPLICATION NUMBER: 01,649

TELEPHONE: (505) 242-9677

TELEPHONE: (505) 242-9677
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX: (505) 243-254 INFORMATION FOR SEQ ID NO:
                                                                       SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
APPLICATION UNMBER: US/08/671,487A
FILING DATE: 27-JUN-1996
                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:
ADDRESSEE: MUSTING, RAASCH, GEBHARDT & SCHWAPPACH, P.A.
STREET: 203 TEXTILE BUILDING, 119 NORTH FOURTH STREET
                    ATTORNEY/AGENT INFORMATION: NAME: MCCORMACK, MYRA H.
                                                                                                                                                                                                 COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION DATA
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                                                                                                                                       MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
COMPUTER: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                     STREET: 203 TEXTII CITY: MINNEAPOLIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM PC/XT/AT, IBM PS/2 or COMPUTER: compatibles
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb MEDIUM TYPE: Storage
                                                                                                                                                                                                                                                        STATE:
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                                                        CLASSIFICATION:
                                                                                                                                                                                                                                   COUNTRY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH:
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WordPerfect 6.0a for Windows
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) 243-2542
NO: 7:
MYRA H.
3ER: 36,602
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100.0%; Pred. No.
tive 0; Mismatc
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Length 4; Indels

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Gaps

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; TOPOLOGY: linear; MOLECULE TYPE: protein US-08-671-487A-8
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                                                             Matches
                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEPHONE: 612-305-12:
TELEFAX: 612-305-1228
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                      TELEFAX: (215)568-3439 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE/DOCKET NUMBER: 11
TELECOMMUNICATION INFORMATION:
TELEPHONE: 612-305-1225
                                                                                                                                                                                                                                                                     REFERENCE/DOCKET NUMBER: UP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215)568-3100
                                                                                                                                                                                                                                                                                                                    CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Malinoski, Lynn
REGISTRATION NUMBER: 38,
                                                                                                                                                                                                                                                                                                                                                                              SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/340,208B
FILING DATE: NOV. 16, 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: MS-DOS/WINDOWS
OPERATING SYSTEM: MS-DOS/WINDOWS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Hirschmann, Ralph
APPLICANT: Spanevello, Rolando
TITLE OF INVENTION: Somatostatin Mimi
TITLE OF INVENTION: Methods Therefor
NUMBER OF SEQUENCES: 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS:
                                                                                                                                                          MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STREET: One Liberty CITY: Philadelphia STATE: PA
                                                                                                                                                                          TOPOLOGY:
                                                             Local Similarity
les 2; Conserv
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STRANDEDNESS: sir
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100.0%; Pr
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100.0%;
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                                                             Score 16; DB 2; I; Pred. No. 1.6e+05; 0; Mismatches 0;
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Pred. No.
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1.6e+05;
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US-08-651-179B-2
                                                                                                                                                                                     RESULT 24
US-08-651-179B-3
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                                                                                                                                      Sequence 3, Application patent No. 5985240 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATE: 21-MAY-1377
FILING DATE: 21-MAY-1377
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/447
APPLICATION DATE: 23-MAY-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REGISTRATION NUMBER: 29,714
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 527-7700
TELEPAX: (212) 753-6237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 23-MAY-1995
ATTORNEY/AGENT INFORMATION:
NAME: ADDA C. GOGORIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: WordPerfect 6.1 for Windows CURRENT APPLICATION DATA:
                                                                                                        APPLICANT: Zamora, Paul O.; Rhodes, Buck A.; Marek, APPLICANT: Michael J.
                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE:
HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Zamora, APPLICANT: Michael
                                          CORRESPONDENCE ADDRESS
                                                                         TITLE OF INVENTION: Peptide Radio TITLE OF INVENTION: Applications
                                                                                                                                                                                                                                                                                                                                                                                                               ANTI-SENSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION:
                                                            NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STREET: av.
STREET: av.
CTTY: New York
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OPERATING SYSTEM: PC-I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: amino acid
STRANDEDNESS: sir
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             STREET:
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New York
                                                                                                                                                                      Application US/08651179B
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                                                                                      Peptide Radiopharmaceutical
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COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 720
MEDIUM TYPE: Storage

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COUNTRY: UZIP: 10022

U.S.A.

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MEDIUM TYPE: Storage
COMPUTER: IBM PS/Z or
COMPUTER: Compatibles
OPERATING SYSTEM: PC-DOS or MS-DOS
SOFTWARE: WordPerfect 6.1 for Windows
CURRENT APPLICATION DATA:
APPLICATION UMBER: US/08/651,179B
FILING DATE: 21-MAY-1996
CLASSIFICATION UMBER: US/08/651,179B
FILING DATE: 23-MAY-1995
APPLICATION UMBER: 29/14
PRICR APPLICATION UMBER: 29/714
PRICR APPLICATION UMBER: 29/714
TELECOMMUNICATION INFORMATION:
NAME: ADDA C. GOGORIS
REGISTRATION UMBER: 29/714
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 527-7700
TELEFAX: (212) 753-6237
INFORMATION FOR SED ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 4 amino acids
STRANDEDNESS: single
TOPOLOCOY: linear
MOLECULE TYPE: Peptide
HYPOTHETICAL: NO
US-08-651-179B-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            В
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Best Local S
Matches 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 1, Application US/08997263 Patent No. 6001960
                                                                                                                                                                                                                                                                                             GEMERAL INFORMATION:

APPLICANT: Hirschmann, Ralph
APPLICANT: Spanevello, Rolando
APPLICANT: Synthetic Somatostatin Mimics
TITLE OF INVENTION: Synthetic Somatostatin Mimics
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSE: Woodcock, Washburn, Kurtz, Mackiewicz and No. 6001960ris
STREET: One Liberty Place, 46th Floor
CITY: Philadelphia
STATE: PA
                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/997,263
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/338,890
FILING DATE: NOV. 14, 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          y Match 45.7%; Score 16; DB 2; L
Local Similarity 100.0%; Pred. No. 1.6e+05;
hes 2; Conservative 0; Mismatches 0;
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                                                                    Query Match 45.7%; Score 16; DB 3; Length 4; Best Local Similarity 100.0%; Pred. No. 1.6e+05; Matches 2; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                TELEPHONE: (215)568-3100
TELEFAX: (215)568-3439
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                           REGISTRATION NUMBER: 38,788
REFERENCE/DOCKET NUMBER: UP)
TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                              TYPE: amino acid TOPOLOGY: linear
                                1 wk 2
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                                                                      Gaps
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Search completed: January 14, 2002, 07:41:36 Job time: 457 sec

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Result
No.
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Maximum Match
Listing first
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Perfect score:
Sequence:
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and is der
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re greater than or equal to the score of the result being printed,
is derived by analysis of the total score distribution.
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1: pir1:*
2: pir2:*
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4: pir4:*
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Match Length
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35
1 wkxxafxg 8
     January 14, 2002, 07:44:22; Search time 43.28 Seconds (without alignments)
14.080 Million cell updates/sec
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A38887

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gut pentapeptide -
bradykinin-potenti
Ig heavy chain CRD
T-cell receptor be
T-cell receptor be
dnaA protein - Pse
locustakinin - mig
T-cell receptor be
                                                                                                                                                    RPCH-related neuro
T-cell receptor be
T-cell receptor be
cholecystokinin-5
neuropeptide - sea
gut pentapeptide -
                                                                                                                                                                                                                                                                                                                                                                             neuromodulatory pe
neuromodulatory pe
T-cell receptor ga
variant surface gl
spasmogenic toxin
neuromodulatory pe
Ig heavy chain CRD
alcohol dehydrogen
dihydrofolate redu
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cerebellar degener
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RESULT 2 S33246 neuromodulatory peptide Wwamide-3 - C;Species: Achatina fulica (giant A C;Date: 19-Mar-1997 #sequence_revis C;Accession: S33246 R;Minakata, H.; Ikeda, T.; Muneoka, FEBS Lett. 323, 104-108, 1993 A;Title: Wwamide-1, -2 and -3: nove A;Reference number: S33244; MUID:93 A;Accession: S33246 A;Status: preliminary A;Molecule type: protein A;Residues: 1-7 <min> Query Match Best Local Similarity 100.0%; Matches 2; Conservative 0;</min>	Query Match 45.7%; Best Local Similarity 100.0%; Matches 2; Conservative Qy 1 wk 2 1 Db 1 wK 2	RESULT 1 S33244 neuromodulatory peptide WWamide-1 - gi C; Species: Achatina fulica (giant Afri C; Date: 19-Mar-1997 #sequence_revision C; Accession: S3324 R; Minakata, H; Ikeda, T; Muneoka, Y. FEBS Lett. 323, 104-108, 1993 A; Title: WWamide-1, -2 and -3: novel n A; Reference number: S33244; MUID:93265 A; Status: preliminary A; Molecule type: protein A; Residues: 1-7 < MIN>	30 11 31.4 6 2 8 32 32 11 31.4 6 2 8 32 32 31 31.4 6 2 8 32 32 31 31.4 6 2 8 32 32 32 31 31.4 6 2 8 32 32 32 32 31 31.4 6 2 8 32 32 32 31 31.4 7 2 8 32 32 32 32 32 32 32 32 32 32 32 32 32
giant African snail African snail) sion 19-Mar-1997 #text_ , Y.; Kobayashi, M.; No el neuromodulatory pept 3265912 3265912 Score 16: DB 2: Lengt Pred. No. 2.2e+05; Pred. No. 2.2e+05; Mismatches 0: In	Score 16; DB 2; Length 7 Pred. No. 2.2e+05; 0; Mismatches 0; Indel		PT0519 PT0637 PT0641 PT0641 PT06426 F410946 F410946 F51230 A58512 A58512 A58512 A59652 PD0028 PD0028 F509652 PT06526 PT06526 PT06526 PT06526 PT06526 PT06526 PT06526
ge 24-Jul-1997 , K. isolated from	: 0; Gaps	ge 24-Jul-1997 , K. 1solated from	T-cell receptor be T-cell receptor be T-cell receptor be T-cell receptor be T-cell receptor be T-cell receptor ga pev-kinin 2 - pena hypothetical TCL3 dermorphin (Trp-4, venom heptapeptide tryptophyllin, bas triacylglycerol li hypothetical protein 180K exoantigen - tubulin beta-3 cha glycoprotein compo Ig H chain V-J r Ig mu chain D regi T-cell receptor be T-cell receptor be
ganglia 0;	0;	ganglia	

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C;Accession: A46306
R;Marangoni, S.; Borges, N.C.C.; Marangoni, R.A.; Antunes, E.; Vieira, C.A.; Novello, J. Toxicon 31, 377-384, 1993
A;Title: Biochemical characterization of a vascular smooth muscle contracting polypeptid
                                                       A;Status: preliminary
A;Molecule type: protein
A;Resiques: 1-8 <MAR>
                                                                                                A; Reference number: A46306; A; Accession: A46306
                                                                                                                                                                             C;Species: Phoneutria nigriventer
C;Date: 07-Oct-1994 #sequence_revision 07-Oct-1994 #text_change 17-Mar-1999
                                                                                                                                                                                                                spasmogenic
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A;Title: Glycopeptides from variant surface
A;Reference number: A61512; MUID:81172836
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C:Species: Trypanosoma brucei
C:Date: 28-Oct-1994 #sequence_revision
C:Accession: C61512
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                                                     A; Residues:
                                                                                                                                                                                                                                                                                                                                                                                                            C; Keywords: glycoprotein
                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; Accession: C61512
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               variant surface glycoprotein MITat 1.4 - Trypanosoma brucei
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C;Keywords: T-cell receptor
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Query Match
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                                                                                                                                                                                                             toxin PNV1 - spider (Phoneutria nigriventer) (fragment)
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2; Conser
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75.0%;
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14;
No.
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 DB 2;
2.2e+05;
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2.2e+05;
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             Length 8;
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A;Molecule type: protein
A;Residues: 1-6 <HJE>
C;Superfamily: alcohol dehydrogenase; long-chain alcohol dehydrogenase homology
                                                                                                                          C;Accession: S66195
C;Helmqvist, L.; Hackett, M.; Shafqat, J.; Danielsson, O.; Iida, J.; Hendrickson, R. FEBS Lett. 367, 237-240, 1995
A;Title: Multiplicity of N-terminal structures of medium-chain alcohol dehydrogenases
                                                                                                                                                                                                  alcohol dehydrogenase (EC 1.1.1.1) class III low affinity form - cod (Gadus C;Species: Gadus sp. (cod)
C;Date: 19-Mar-1997 #sequence_revision 29-Aug-1997 #text_change 12-Jun-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G. J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity A;Reference number: PT0222; MUID:91108337
A;Accession: PT0308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
C;Accession: PT0308
                                                                  A; Reference number: S66191;
A; Accession: S66195
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C;Species: Achatina fulica (giant African snail)
C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #tex
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A; Residues: 1-5 < YAM>
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A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-7 <MIN>
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A; Title: WWamide-1, -2 and -3: novel neuromodulatory peptides isolated from ganglia A; Reference number: S33244; MUID:93265912
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      R;Minakata, H.; Ikeda, FEBS Lett. 323, 104-10
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Pred. No. 2.2e
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R;Peterson, D.S.; Walliker, D.; Wellems, T.E.
Proc. Natl. Acad. Sci. U.S.A. 85, 9114-9118, 1988
A;Title: Evidence that a point mutation in dihydrofolate reductase-thymidylate A;Reference number: A94217; MUID:89057886
A;Accession: A31263
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Proc. Natl. Acad. Sci. U.S.A. 85, 9114-9118, 1988
A;Title: Evidence that a point mutation in dihydrofolate reductase-thymidylate synthase A;Reforence number: A94217; MUID:89057886
A;Accession: B31263
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cerebbiliar degeneration-related protein - mouse (fragment)
C;Speciles: Mus musculius (house mouse)
C;Date: 28-Sep-1900 #sequence_revision 28-Sep-1990 #text_change 24-Jun-1993
C;Accession: B35640
R;Chen, Y.T.; Rettly, W.J.; Yenamandra, A.K.; Kozak, C.A.; Chaganti, R.S.K.; Posner, Proc. Natl. Acad. Sci. U.S.A. 87, 3077-3081, 1990
A;Title: Ccrebellar degeneration-related antigen: a highly conserved neuroectodermal
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C;Keywords: methyltransferase; NADP; oxidoreductase
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polygalacturonase (EC 3.2.1.15) isoform PG2 - fungus (Sclerotini. N; Alternate names: endopolygalacturonase; pectin depolymerase; pc. Sclerotinia sclerotiorum C; Species: Sclerotinia sclerotiorum C; Date: 19-Mar-1997 #sequence_revision 21-Nov-1998 #text_change C; Accession: S13661 R; Waksman, G; Keon, J.P.R.; Turner, G. Biochim. Biophys. Acca 1073, 43-48, 1991 A; Reference number: S13661; MUID:91120822 A; Accession: S13661
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A;Accession: B35640
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-6 <CHE>
                                                                                                                                                                                                  R;Holder, A.A.; Cross, G.A.M.

Mol. Blochem. Parasitol. 2, 135-150, 1981

Mol. Blochem. Parasitol. 2, 135-150, 1981

A;Title: Glycopeptides from variant surface glycoproteins of Trypanosoma brucei. C-to
A;Reference number: A61512; MUID:81172836

A;Accession: D61512
A;Status: preliminary
                                                                                                                                                                                                                                                                                                          variant surface glycoprotein MITat 1.6 - Trypanosoma brucei (fragment)
C;Speciles: Trypanosoma brucei
C;Date: 28-Oct-1994 #sequence_revision 28-Oct-1994 #text_change 07-May-1999
C;Accession: D61512
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A; Residues: 1-8 <WAK>
C; Function:
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1; Mismatches
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in depolymerase; pectinase
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growth

factor receptor 1,

secreted

mouse

(fragment)

an

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C;Species: Mus musculus (house mouse)
C;Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 07-May-1999
C;Accession: A42057
R;Werner, S.; Duan, D.S.R.; de Vries, C.; Peters, K.G.; Johnson, D.E.; Williams, L.T.
Mol. Cell. Biol. 12, 82-88, 1992
A;Title: Differential splicing in the extracellular region of fibroblast growth factor A;Reference number: A42057; MUID:92107200
A;Accession: A42057
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-8 <WER>
A;Residues: 1-8 <WER>
 QУ
                                                                                                                            A; Residues:
C; Keywords:
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                                                                                                                                                                                                A; Reference number: A34626;
A; Accession: A34626
                                                                                                                                                                                                                R;Kuroki, Y.; Kanda, T.; Kubota, I.; Fujisawa, Y.; Ikeda, T.; Miura, A.; Minamitake, Y. Biochem. Biophys. Res. Commun. 167, 273-279, 1990 A;Title: A molluscan neuropeptide related to the crustacean hormone, RPCH. A;Reference number: A34626; MUID:90179762
                                                                                                                                                                                                                                                 R; Kuroki, Y.; Kanda, T.; Kubota, Biochem. Biophys. Res. Commun. 1
                                                                                                                                                                                                                                                                                RPCH-related neuropeptide - ferruginous spindle
C;Species: Fusinus ferrugineus (ferruginous spindle)
C;Date: 06-Jul-1990 #sequence_revision 06-Jul-1990 #text_change 31-Dec-1993
C;Accession: A34626
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A;Mesidues: 1-3 <CIN>
C;Keywords: pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status
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J. Protein Chem. 9, 221-227, 1990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         bradykinin-potentiating peptide 6 - island jararaca
C;Species: Bothrops insularis (island jararaca)
C;Date: 14-Feb-1992 #sequence_revision 01-Dec-1992 #text_change 05-Aug-1994
C;Accession: F37196
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C;Keywords: growth factor receptor
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A; Molecule type:
A; Residues: 1-5
                                Am. J. Physiol. 252, G272-G275, 1987
A;Title: CCK-5: sequence analysis of a small cholecystokinin from canine brain and in
A;Reference number: A32516; MUID:87153871
A;Accession: A32516
                                                                                                                                       N;Alternate names: CCK-5
C;Species: Canis lupus familiaris (dog)
C;Date: 18-Oct-1989 #sequence_revision 18-Oct-1989 #text_change 18-Aug-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Status: translation not shown
A;Molecule type: mmNA
A;Residues: 1-4 <FEE>
A;Experimental source: day 4 postnatal thymus,
C;Keywords: T-cell receptor
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                T-cell receptor beta chain V-D-J region (121-1BV) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
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A;Residues: 1-4 <HAR>
A;Residues: 1-4 <HAR>
A;Cross-references: GB:S60737; NID:g233916; PIDN:AAB19518.1; PID:g233918
A;Note: sequence extracted from NCBI backbone (NCBIN:60737, NCBIP:60738)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Title: Evolutionarily conserved organization and A; Reference number: A53284; MUID: 91342695 A; Accession: B53284
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C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 02-May-1994 #sequence_revision 18-Nov-1994 #text_change 05-Nov-1999
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c: protein
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5. 2.2e+05;
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C;Accession: A60803
R;Graff, D.; Grimmelikhuljzen, C.J.P.
Brain Res. 442, 354, 1988
A;Title: Isolation of <Glu-Ser-Lu-Arg-Trp-NH-2, a novel neuropeptide from A;Reference number: A60803; MUID:88222764
A;Accession: A60803
A;Molecule type: protein
A;Residues: 1-5 <GRA>
C;Keywords: amidated carboxyl end; neuropeptide; pyroglutamic acid F;1/Modified site: pyrrolloone carboxylic acid (Gin) #status experimental F;5/Modified site: amidated carboxyl end (Trp) #status experimental
                                 RESULT
G37196
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                                                                                                                                                                                                                                                                                                                                                                                                                  gut pcntapeptide - Japanese eel
C:Species: Anguilla japonica (Japanese eel)
C:Date: 31-Mar-1992 #sequence_revision 31-Mar-1992 #text_change 11-Apr-1995
bradykinin-potentiating peptide 7 - in C; Species: Bothrops insularis (island
                                                                                                                                                                                                                                                                                                                         C;Accession: JH0253
R;Uesaka, T.; Ikeda, T.; Kubota, I.; Muneoka, Y.; Ando, M. Biochem. Biophys. Res. Commun. 180, 828-832, 1991
A;Title: Structure and function of a pentapeptide isolated A;Reference number: JH0253; MUID:92062113
A;Accession: JH0253
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JH0253
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RESULT
PT0729
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A;Molecule type: protein
A;Residues: 1-5 cCIN>
C;Keywords: pyroglutamic acid
F;1/Modified site: pyrrolidone
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R;Cintra, A.C.O.; Vieira, C.A.; Giglio, J.R. J. Protein Chem. 9, 221-227, 1990  
A;Title: Primary structure and biological activity of bradykinin A;Reference number: A37196; MUID:90351557  
A;Accession: G37196
                                                                                                                                                                                                                                    J. Exp. Med. 174, 115-124, 1991
A; Title: Junctional sequences of fetal T cell
A; Reference number: PT0509; MUID:91277601
A; Accession: PT0640
A; Status: translation not shown
                                                                                                                                                                                                                                                                                                                                                         C;Species: Mus musculus (house mouse)
C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992
C;Accession: PT0640; PT0685; PT0729
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C:Species: Homo sapiens (man)
C:Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change
C:Accession: PT0281
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A; Residues: 1-5 < YAM>
A; Experimental source:
C; Keywords: heterotetra
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A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity an A;Reference number: PT0222; MUID:91108337
A;Status: translation not shown A;Molecule type: DNA A;Residues: 1-5 <FE3>
                                                         A; Experimental source: A; Accession: PT0729
                                                                                              A; Molecule type: DNA
A; Residues: 1-5 <FE2>
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A; Residues: 1-5 <FEE>
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A; Accession: PT0281
                                                                                                                                       A; Status: translation not shown
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RESULT 25
PT0580
PT-Cell receptor beta chain V-D-J region (159-2B) - mouse (fragment)
C:Species: Mus musculus (house mouse)
C:Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
C;Accession: PT0580
R;Feeney, A.J.
J. Exp. Med. 174, 115-124, 1991
A;Pitle: Junctional sequences of fetal T cell receptor beta chains have few N regions.
A;Reference number: PT0580
A;Reference number: PT0580
A;Residues: translation not shown
A;Molecule type: mRNA
A;Molecule type: mRNA
A;Residues: 1-5 cFEE>
A;Experimental source: day 19 fetal thymus, strain BALB/c
C;Reywords: T-cell receptor
Search completed: January 14, 2002, 07:44:22 Job time: 408 sec
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Maximum Match 100%
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ALIGNMENTS

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TISSUE=Ganglion;
MEDLINE=93265912; PubMed=8495720;
Minakata H., Ikeda T., Muneoka Y.,
                                                                    Achatina fulica (Giant African snail).

Eukaryota; Metazoa; Mollusca; Gastropoda; Pulmonata; Stylommatophora; Achatinacea; Achatinidae; Achatina.

NCBI_TaxID=6530;
                                                                                                                                                                                                                                                                                                                                                                                                                                      Minakata H., Ikeda T., Muneoka Y., Kobayashi
"WWamide-1, -2 and -3: novel neuromodulatory
ganglia of the African glant snail, Achatina
FEBS Lett. 323:104-108(1993).
                                                                                                                                                                                                                                                                                                                                                                                               Neuropeptide; Amidation. MOD_RES 7 7 7 SEQUENCE 7 AA; 964 MW
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Achatinacea; Achatinidae; Achatina.
NCBI_TaxID=6530;
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Achatina fulica (Giant African snail).
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MYOTROPIC NEUROPEPTIDE 1 (LED-MNP-I).

CS Leptinotarsa decemiineata (Colorado potato beetle).
CS Leptinotarsa decemiineata (Colorado potato beetle).
CC Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
CC Cucujiformia; Phytophaga; Chrysomeloidea; Chrysomelidae;
CC Chrysomelinae; Leptinotarsa.
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MEDLINB-93265912; PubMed-8495720;
Minakata H., Ikeda T., Muneoka Y., Kobayashi M., Nomoto
"Mwamide-1, -2 and -3: novel neuromodulatory peptides is
ganglia of the African giant snail, Achatina fulica.";
FEBS Lett. 323:104-108(1993).
-i- FUNCTION: EXHIBITS MODULATORY EFFECTS ON THE PERIPHE
SYSTEM. INHIBITS ACTIVITY ON A CENTRAL NEURON.
PIR; 533245; S33245.
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Achatinacea; Achatinidae; Achatina.
NCBI_TaxID=6530;
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MOD_RES 7 7 7
SEQUENCE 7 AA; 965 MW;
                                         NCBI_TaxID=7539;
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 MEDLINE=95380343; PubMed=7651886;
             SEQUENCE, AND SYNTHESIS TISSUE=Head;
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50.0%;
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7362D5B69B132310 CRC64;
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7362D5B69B041310 CRC64;
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Best Local 9
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Best Local
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         U1-OCT-1996 (Rel. 34, Creat 01-OCT-1996 (Rel. 34, Last 15-JUL-1998 (Rel. 36, Last TRIOSEPHOSPHATE ISOMERASE (TPI1.
                                 TPIS_CANFA
P54714;
01-OCT-1996
01-OCT-1996
15-JUL-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BPP7_BOTIN
P30425;
                                                                                                                                                                                                                                                           "Primary structure and biological activity of bradykinin pote peptides from Bothrops insularis snake venom.";

J. Protein Chem. 9:221-227(1990).
-1- FUNCTION: THIS PEPFIDE BOTH INHIBITS THE ACTIVITY OF THE ANGIOTENSIN-CONVERTING ENZYME AND ENHANCES THE ACTIVITY OF THE BRADYKININ BY INHIBITING THE KINASES THAT INACTIVATE IT. ACTIS AS AN INDIRECT HYPOTENSIVE AGENT.

PIR; G37196; G37196.
Hypotensive agent; Venom.
MOD_RES

SEQUENCE 5 AA; 629 MW; 776DC37326B00000 CRC64;
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                                                                                                 CANFA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-APR-1993 (Rel. 25, Created)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last annotation update)
ERADYKININ-POTENTIATING PEPTIDE S5,2 (5A) (ANGIOTENSIN-CONVERTING ENZYME INHIBITOR).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Grauwels L., van Leiven F., de Loof A.; "Identification, characterization, and immunolc a novel myotropic neuropeptide in the Colorado Leptinotarsa decemlineata."; Peptides 16:365-374(1995).
                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE=90351557; PubMed=2386615;
Cintra A.C.O., Vieira C.A., Giglio J.R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea; Viperidae; Crotalinae; Bothrops.
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Eukaryota; Metazoa; Chordata; Craniata;
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Grauwels L., van Leuven F., de L
Canis familiaris (Dog).
                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE
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50.0%;
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Last annotation update)
RASE (EC 5.3.1.1) (TIM)
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6DD73768745B5DB0
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Pred. No.
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RESULT 8
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-I- PATHWAY: PLAYS AN IMPORTANT ROLE IN SEVERAL METABOLIC PATHWAYS.
-I- SUBUNIT: HOMODIMER (BY SIMILARITY).
-I- SIMILARITY: BELONGS TO THE TRIOSEPHOSPHATE ISOMERASE FAMILY.
HSC-2DPAGE; P54714; DOG.
INCOFPRO; IPRO00652; Trioseph_Isomrse.
PROSITE; PS00171; TIM; PARTIAL.
Isomerase; Glycolysis; Gluconeogenesis; Fatty acid biosynthesis;
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P38639;
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SEQUENCE
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"HSC-2DPAGE and the two-dimensional gel electrophoresis database of dog heart proteins.";

electrophoresis 18:2795-2802(1997).

- I- CATALYTIC ACTIVITY: D-GLYCERALDEHYDE 3-PHOSPHATE - DIHYDROXY-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-OCT-1994 (Rel. 30, Created)
01-OCT-1994 (Rel. 30, Last sequence update)
01-FEB-1995 (Rel. 31, Last annotation update)
UNKNOWN PROTEIN FROM 2D-PAGE OF FIBROBLASTS (P19) (FRAGMENT).
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Dunn M.J., Corbett J.M., Wheeler C.H.;
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Mammalia; Eutheria;
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mus musculus (Mouse)
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RESULT 9
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AC P1869
AC P1869
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                                                                                                        "ISUAL";
muscle.";
Biochem. Biophys. R
PIR; A31570; A31570;
PIR; B AA;
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01-NOV-1995 (Rel. 3
01-NOV-1995 (Rel. 3
15-JUL-1998 (Rel. 3
                                                                                                                                                                                                                                                         01-NOV-1990 (Rel. 16, Created)
01-NOV-1990 (Rel. 16, Last sequence update)
01-NOV-1990 (Rel. 16, Last sequence update)
01-NOV-1990 (Rel. 16, Last annotation update)
ANGIOTENSIN-CONVERTING ENZYME INHIBITOR.
Thunnus albacares (Yellowfin tuna) (Neothunnus macropterus).
Enkaryota; Metazoa; Chordata; Craniata; Vertebrata; Enteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Scombroid
Scombridae; Thunnus.
                                                                                                                                                                            TISSUE-Muscle;
MEDLINE-88326322; PubMed-3415688;
MEDLINE-Wafsumoto S., Oka H.,
                                                                                                                                                                                                                                                                                                                                                                                ACI_THUAL
P18691;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "Locustakinin, a novel myotropic peptide from Locusta migratoria, isolation, primary structure and synthesis."; Regul. Pept. 37:49-57(1992).

-I- FUNCTION: MYOTROPIC PEPTIDE. MAY BE IMPORTANT IN THE STIMULATION OF ION TRANSPORT AND INHIBITION OF DIURETIC ACTIVITY IN MALPIGHIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TISSUE=Corpora cardiaca;
MEDLINE=92262851; PubMed=1585017;
Schoofs L., Holman G.M., Proost P., van Damme J.,
de Loof A.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Locusta migratoria (Migratory locust).

Locusta migratoria (Migratory locust).

Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;

Pterygota; Neoptera; Orthopteroidea; Orthoptera; Caelifera;

Acridomorpha; Acridoidea; Acrididae; Locusta.
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NCBI_TaxID=7004;
                                                                                                                                                                   Kohama Y., Matsumoto S., Oka H., Tera "Isolation of angiotensin-converting
                                                                                                                                                                                                                        SEQUENCE.
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MOD_RES
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Similarity 100.0%;
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larity 100.0%;
Conservative
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AA; 953
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                                                                                                                                          Res. Commun. 155:332-337(1988).
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0; Mismatches
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686365A5B9CDB000
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Pred. No.
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RESULT 11

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Best Local
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P14086;
                                                                                                                           ADIPOKINETIC HOMMUNE (****...,**).
Libellula auripennis (Skimmer dragonfly).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Eukaryota; Metazoa; Arthropoda; Anisoptera; Libellulidae; Libellula.
                                                                                                                                                                                       01-MAY-1992 (Rel. 22, Created)
01-FEB-1994 (Rel. 28, Last seq
01-FEB-1994 (Rel. 28, Last ann
ADIPOKINETIC HORMONE (AKH).
                                                                                                                                                                                                                                                       AKH_LIBAU
P25418;
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Ol-FEB-1994 (Rel. 28, Last sequence update)
ADIPOKINETIC HORMONE G (AKH-G) (RO II).
Gryllus bimaculatus (Two-spotted cricket), and
Romalea microptera (Lubber grasshopper).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Orthoptera; Ensifera; Gryllidae;
Gryllinae; Gryllus.
NCBI_TaxID=6999, 7007;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 the lubber grasshopper, Romalea microptera.";
Peptides 9:681-688(1988).
-i- FUNCTION: THIS HORMONE, RELEASED FROM CELLS IN THE CORPORA
CARDIACA AFTER THE BEGINNING OF FLIGHT, CAUSES RELEASE OF
DIGLYCERIDES FROM THE FAT BODY AND THEN STIMULATES THE FLIGHT
MUSCLES TO USE THESE DIGLYCERIDES AS AN EMERGY SOURCE.
-i- SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SPECIES=G.bimaculatus; TISSUE=Corpora cardiaca;
MEDLINE=88106553; PubMed=3426616;
Gaede G., Rinehart K.L. Jr.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GRYBI
concentrating
dragonfly.";
                                                                 TISSUE=Corpora cardiaca;
MEDLINE=90359055; PubMed=2390213;
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MEDLINE=89145002; Pub
                                                  Ga∛de
                                                                                                 SEQUENCE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Neuropeptide; Amidation; Flight.
MOD_RES 1 1 PYF
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InterPro; IPR002047; AKH.
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llarity 100.0%;
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                 ancestral peptide of the adipokinetic/red-pigment-
hormone family isolated and sequenced from a
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Last annotation update)
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Pred. No.
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MOD_RES
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-i- FUNCTION: THIS HORMONE, RELEASED FROM CELLS IN THE CORPORA CARDIACA AFTER THE BEGINNING OF ELIGHT, CAUSES RELEASE OF DIGLYCERIDES FROM THE FAT BODY AND THEN STIMULATES THE FLIGHT MUSCLES TO USE THESE DIGLYCERIDES AS AN ENERGY SOURCE.

-i- SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.

DIR; S10596; S10596.

InterPro: IPR002047; AKH.
                                                                                                                       SPECTIOMETRY,",

BIOL. Chem. HOPPE-Seyler 373:133-142(1992).

-:- EUNCTION: THIS HORMONE, RELEASED FROM CELLS IN THE CORPORA

-:- EUNCTION: THIS HORMONE, RELEASED FROM THE FAIGHT, CAUSES RELEASE OF

CARDIACA AFTER THE BEGINNING OF FLIGHT, CAUSES RELEASE OF

DIGLYCERIDES FROM THE FAIT BODY AND THEN STIMULATES THE FLIG

MUSCLES TO USE THESE DIGLYCERIDES AS AN ENERGY SOURCE.

-:- SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
                                                                                                                                                                                                                                  SPECIES=P.marginata; TISSUE=Corpora cardiaca; MEDLINE=92265187; PubMed-1586453; Gaede G., Lopata A., Kellner R., Rinehart K.L. Jr.; Gaede Gs. topata A., Kellner R., Rinehart K.L. Jr.; Primary structures of neuropeptides isolated from the corpora cardiaca of various cetonid beetle species determined by pulsed-liquid phase sequencing and tandem fast atom bombardmen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pachnoda marginata (Flower beetle).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Endopterygota; Coleoptera; Polyphaga;
Scarabaeiformia; Scarabaeidae; Melolonthinae; Melolontha.
NCBI_TaxID=7061, 7087, 7058;
                                                                                                                                                                                                                                                                                                                                                               hormone/red-pigment-concentrating sequenced from two beetle species Biochem. J. 275:671-677(1991).
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SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                           SPECIES=M.melolontha, and G.stercorosus; TISSUE=Corpora cardiaca;
MEDLINE=91248100; PubMed=2039445;
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                                                                            InterPro;
                                                                                                                                                                                                                                                                                                                                                                                          "A unique charged tyrosine-containing member of the adipokinetic hormone/red-pigment-concentrating hormone peptide family isolated
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                                                                         Dasyurus viverrinus (Southeastern quoll).
Eukaryota; Mctazoa; Chordata; Craniata; Vertebrata;
Mammalla; Metatheria; Diprotodontia; Macropodidae; NCBI_TaxID~9315, 9279;
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01-APR-1993 (Rel. 25, Last sequence update)
01-OCT-1996 (Rel. 34, Last annotation updatc)
CHOLECYSTOKININ (CCK).
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InterPro; IPR002047; AKH.
PROSITE; PS00256; AKH; 1.
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Taba
Tabanidae; Tabanus.
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01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last annotation update)
ADIPOKINETIC HORMONE (AKH) (DIPTERAN CORPORA
     TISSUE-Brain;
                                                                                                                                                                         Macropus eugenii (Tammar wallaby),
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SPECIES-P.americana;
MEDLINE-84299179; PubMed-6591205;
Scarborough R.M., Jamieson G.C., I
Miller C.A., Schooley D.A.;
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SPECIES-P. americana;
MEDLINE-85046530; PubMed-6548628;
MEDLINE-85046530; PubMed-6548628;
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-I- FUNCTION: THIS PEPTIDE HORMONE INDUCES AND THE RELEASE OF PANCREATIC ENZYMES: IN THE BRAIN IS NOT CLEAR.
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                                                                                                 "Isolation and primary structure of two peptides cardioacceleratory and hyperglycemic activity from cardiaca of Periplaneta americana."; proc. Natl. Acad. Sci. U.S.A. 81:5575-5579(1984)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PIR; A43001; A43001.
PIR; PQ0012; PQ0012.
InterPro: IPR001651; Gastrin.
PROSITE; PS00259; GASTRIN; 1.
                                     MEDLINE=90160053;
Gaede G., Kellner
                                                                                                                                                                                                                               "Structures of two cockroach neuropeptides assigned bombardment mass spectrometry."; Biochem. Biophys. Res. Commun. 124:350-358(1984).
                                                                                                                                                                                                                                                                     Witten J.L., Schaffer M.H., Rinehart K.L. Jr.;
          "The metabolic neuropeptides of the corpus cardiacum beetle and the American cockroach are identical.";
                                                            SPECIES=L.decemlineata;
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10:1287-1289(1989).
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HTF2_PERAM STANDARD; PRT; 8 AA.
P04549;
13-AUG-1987 (Rel. 05, Created)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last annotation update)
01-FEB-1994 (Rel. 28, Last annotation update)
HYPERTREHALOSAEMIC FACTOR II (NEUROPEPTIDE M-II) (PERIPLANETIN CC-2)
(PEA-CAH-II) (LED-CC-II) (HYPERTREHALOSAEMIC NEUROPEPTIDE II).
Periplaneta americana (American cockroach),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaede G., Rinehart K.L. Jr.;

"Primary structures of hypertrehalosaemic neuropeptides isolated from Primary structures of hypertrehalosaemic neuropeptides isolated from the corpora cardiaca of the cockroaches Leucophaea maderae, Gromphadorhina portentosa, Blattella germanica and Blatta orientalis and of the stick insect Extatosoma tiaratum assigned by tandem fast atom bombardment mass spectrometry.";

Biol. Chem. Hoppe-Seyler 371:345-354(1990).

-i- FUNCTION: HYPERTREHALOSAEMIC FACTORS ARE NEUROPEPTIDES THAT ELEVATE THE LEVEL OF TREHALOSE IN THE HEMOLYMPH (TREHALOSE IS THE MAJOR CARBOHYDRATE IN THE HEMOLYMPH OF INSECTS).
                                                                 "Isolation and primary structure of two peptides with cardioacceleratory and hyperglycemic activity from the cardiaca of Periplaneta americana.";
                                                                                                          MEDLINE=84298179; PubMed=6591205; Scarborough R.M., Jamieson G.C., Miller C.A., Schooley D.A.;
                                                                                                                                                                                                                                      Witten J.L., :
Rinehart K.L.
                                                                                                                                                                                                                                                                                                                                                                 Leptinotarsa decemlineata (Colorado potato beetle), a Blatta orientalis (Oriental cockroach). Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda;
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PIR; S08995;
SPECIES=L.decemlineata; TISSUE=Corpora
MEDLINF=90160053; PubMed=2576128;
                                                                                                                                                        SPECIES=P.americana;
                                                                                                                                                                        SEQUENCE
                                                                                                                                                                                                Biochem. Biophys.
                                                                                                                                                                                                                                                                                                  SEQUENCE
                                                                                                                                                                                                                                                                                                                          Blattoidea; Blattidae;
NCBI_TaxID=6978, 7539;
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MEDLINE=90253659; PubMed=2340112;
                             SEQUENCE
                                                                                                                                                                                                              bombardment mass spectrometry."
                                                                                                                                                                                                                                                                    MEDLINE-85046530;
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                                                                                                                                                                                                                           "Structures of two cockroach neuropeptides assigned
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5046530; PubMed=6548628;
L., Schaffer M.H., O'Shea M.,
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                                                       U.S.A. 81:5575-5579(1984)
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Pred. No.
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                cardiaca;
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Best Local :
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                 Neuropeptide;
MOD_RES
MOD_RES
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P25419;
01-MAY-1992 (Rel. 22, Created)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last sequence update)
HYERTREHALOSAEMIC FACTOR (HOTH) (HYERTREHALOSEMIC NEUROPEPTIDE).
Tenebrio molitor (Yellow mealworm), and Zophobas rugipes.
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Endopterygota; Coleoptera; Polyphaga;
Cucujiformia; Tenebrionidae; Tenebrio.

NCBL_TaxID-7067, 7075;
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MOD_RES
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PROSITE; P
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PIR;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaede G., Kellner R.; "The metabolic neuropeptides of the corpus cardiacum from beetle and the American cockroach are identical.";
SEQUENCE
                                                                                             PROSITE;
                                                                                                                                                                                                                                                                 "The primary structure of the hypertrehalosemic neuropeptide tenebrionid beetles: a novel member of the AKH/RPCH family."; peptides 11:455-459(199).
                                                                                                                                                                                                                                                                                                                                                                    Gaede G.,
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                                                                                                                 InterPro;
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                                                                                                                                                                                                                 FUNCTION: HYPERTREHALOSAEMIC FACTORS ARE NEUROPEPTIDES THAT ELEVATE THE LEVEL OF TREHALOSE IN THE HEMOLYMPH (TREHALOSE THE MAJOR CARBOHYDRATE IN THE HEMOLYMPH OF INSECTS).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               m bombardment mass spectrometry.";
1. Chem. Hoppe-Seyler 371:345-354(1990).
FUNCTION: HYPERTREHALOSAEMIC FACTORS ARE NEUROPEPTIDES THAT ELEVATE THE LEVEL OF TREHALOSE IN THE HEMOLYMPH (TREHALOSE THE MAJOR CARBOHYDRATE IN THE HEMOLYMPH OF INSECTS).
SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
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S08996; S08996.
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PS00256; AKH; 1.
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86745775B9C44736 CRC64;
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Pred. No.
                                             PYRROLIDONE CARBOXYLIC
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RESULT 18
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Holman G.M., Cook B.J., Nachman R.J.;

**Isolation, primary structure and synthesis of two neuropeptides from Leucophaca maderae: members of a new family of Cophalomyotropins.*;

Comp. Biochem. Physiol. 84C:205-211(1986).

-I- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACTI ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).

-I- SIMILARITY: TO THE OTHER LEUCOKININS.
                                                                                                                                                                                                                                                                                              01-MAY-1991 (Rel. 18, Created)
01-MAY-1991 (Rel. 18, Last sequence update)
01-MAY-1991 (Rel. 18, Last sequence update)
01-MAY-1991 (Rel. 18, Last sequence update)
LEUCOKININ II (L-II).
Leucophaea maderae (Madeira cockroach).
Leucophaea maderae (Madeira cockroach).
Leucophaea maderae (Madeira cockroach).
Leucophaea maderae (Madeira cockroach).
Leucophaea maderae (Madeira cockroach).
Leucophaea maderae (Madeira cockroach).
Leucophaea maderae; Neoptera; Blattaria;
Blaberoidea; Blaberidae; Leucophaea.
NCBI_TaxID-6988;
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"Isolation, primary structure and synthesis of two neuropeptides from Leucophaea maderae: members of a new family of cephalomyotropins.";

Comp. Biochem. Physiol. 84C:205-211(1986).

Comp. Biochem. Physiol. 84C:205-211 (1986).

--- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACTION ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).

--- SIMILARITY: TO THE OTHER LEUCOKININS.
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01-MAY-1991 (Rel. 18, Last sequence update)
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LEUCOKININ I (L-I)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Neuropeptide; Amidation.
MOD_RES 8 8
SEQUENCE 8 AA; 893 MW
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O1-MAY-1991 (Rel. 18, L

O1-MAY-1991 (Rel. 18, L

LEUCOKININ IV (L-IV)
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Ol-MAY-1991 (Rel. 18, Last sequence update)
Ol-MAY-1991 (Rel. 18, Last sequence update)
LEUCOKININ III (L-III),
Leucophaea maderae (Madeira cockroach).
Leucophaea metazoa; Arthropoda; Trachaata; Hexapoda; Insecta;
Pterygota; Metazoa; Arthropoda; Dictyoptera; Blattaria;
Blaberoidea; Blaberidae; Leucophaea.
NCBI_TaxID-6988;
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LEUMA
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Biattaria;
Blaberoidea; Blaberidae; Leucophaea.
NCBI_TaxID=6988;
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Holman G.M., Cook B.J., Nachman R.J.;
"Primary structure and synthesis of to
from Leucophaea maderae: members of a
Cephalomyotropins."

Cephalomyotropins."
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MOD_RES 8 8
SEQUENCE 8 AA; 852 MW
                                                             TISSUB-Head;
Holman G.M., Cook B.J., Nachman F.
"Primary structure and synthesis
from Leucophaea maderae: members
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MOD_RES 8 8
SEQUENCE 8 AA; 910 MW
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                                  Cephalomyotropins.";
                                                                                                                                                                                                   SEQUENCE,
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-i- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE ST
ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).
-i- SIMILARITY: TO THE OTHER LEUCOKININS.
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   84C:271-276(1986).
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P19987;
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01-FEB-1991 (Rel. 17, Created)
01-FEB-1994 (Rel. 28, Last sequence up
30-MAY-2000 (Rel. 39, Last annotation
LEUCOKININ VI (L-VI)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-FEB-1991 (Rel. 17, Created)
01-FEB-1991 (Rel. 17, Last sequence update)
30-MAY-2000 (Rel. 39, Last annotation update)
LEUCOKININ V (L-V).
Leucophaea maderae (Madeira cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
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SEQUENCE
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta; Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria; Blaberoidea; Blaberidae; Leucophaea.
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MEDLINE=87052651; PubMed=2877794;
                    TISSUE=Head;
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MOD_RES 8 8
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Best Local Similarity
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MOD_RES
SEQUENCE 8 A
                ICK8_LEUMA STANDARD; PRT; P1990; O1-FEB-1991 (Rel. 17, Created) O1-FEB-1991 (Rel. 17, Last sequence upon C1-FEB-1991 (Rel. 17, Last annotation o1-FEB-1991 (Rel. 17, Last annotation o1-FEB-1991 (Rel. 17, Last annotation of LEUCOKININ VIII (L-VIII).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Holman G.M., Cook B.J., Nachman R.J.;

"Isolation, primary structure and synthesis of leucokinins VII

VIII the final members of this new family of cephalomyotropic

peptides isolated from head extracts of Leucophaea maderae.";

Comp. Biochem. Physiol. 88C:31-34(1987).

-1- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACT

ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).

-1- SIMILARITY: TO THE OTHER LEUCOKININS.
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SEQUENCE
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myotropic peptides of Leucophaea maderae.";
Comp. Biochem. Physiol. 88C:27-30(1987).
-1- PUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACTILE
ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).
-1- SIMILARITY: TO THE OTHER LEUCOKININS, AND TO MANDUCA SEXTA AND
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Pterygota; Neoptera; Orthopteroidea;
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MOD_RES
  Eukaryota;
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Arthropoda; Tracheata; Hexapoda; Insecta;
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DC6365A5B9CDC76A CRC64;
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Pred. No. 1s the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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Q1-FEB-1997 (TrEMBLrel. 02, Last sequence
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INSIDE INTRON 5 (FRAGMENT).
Saccharomyces cerevisiae (Baker's yeast).
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MEDLIND-81069885; PubMed-6254986;
Bonitz S.G., Coruzzi G., Thalenfeld B., Tzagoloff A., Macino (
"Assembly of the mitochondrial membrane system. Structure and nucleotide sequence of the gene coding for subunit 1 of yeast cytochrme oxidase.";
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SEQUENCE
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EMBL; V00694; CAA24066.1; -.
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01-NOV-1998 (TrEMBLrel.
PROHIBITIN (FRAGMENT).
Rattus norvegicus (Rat).
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01-AUG-1998
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Gene 158:291-294(1995).
EMBL; U17178; AAA86692.1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Submitted (MAY-1997) to the EMBL; AF001780; AAC33369.1;
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01-JUL-1997
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01-NOV-1996
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McClung J.K.;
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Pred. No. 4.7
0; Mismatches
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Pred. No. 4.7e+05;
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Dell'Orco R.T.,
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P70243 PRELIMINA...,
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Ol-FEB-1997 (TrEMBLrel. 02, Created)
Ol-FEB-1997 (TrEMBLrel. 02, Last sequence update)
Ol-AUG-1998 (TrEMBLrel. 07, Last annotation update)
SKELETAL MUSCLE-SPECIFIC CALCIUM CHANNEL (FRAGMENT).
Mus musculus (Mouse).
Through Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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NON_TER
SEQUENCE
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O02831;
O1-JUL-1997 (TrEMBLrel. 04, Created)
O1-JUL-1997 (TrEMBLrel. 04, Last sequence update)
O1-MAY-1999 (TrEMBLrel. 10, Last annotation update)
PRO ALPHA 1 TYPE III COLLAGEN PROTEIN (FRAGMENT).
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                                                                                                                                                                                                                                                                                                                 of full-thickness defects of articular cartilage. Matrix Biol. 15:39-47(1996). EMBL; S83371; AAD14433.1; -.
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                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A. MEDLINE=96377339; PubMed=8783186;
                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=9986;
                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Oryctolagus cuniculus (Rabbit).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE
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Bovidae; Bovinae; Bos.
                                                                                                                                                                                                                                                                                                                                                      "Evidence for insufficient chondrocytic
                                                                                                                                                                                                                                                                                                                                                                   Vuorio E.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ribosomal
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Pred. No. 4.7e
0; Mismatches
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Pred. No. 4.7e+05;
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P82096;
01-MAY-2000 (TrEMBLrel. 1
01-MAY-2000 (TrEMBLrel. 1
01-MAY-2000 (TrEMBLrel. 1
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Calcium channel.
NON_TER 1
NON_TER 8
            TISSUE-SKIN SECRETION; Wabnitz P.A., Bowle J.H., Tyler "Peptides from the skin glands o
                                                                                                                                                     Litoria rubella (Desert tree frog).
Eukaryota; Mctazoa; Chordata; Craniata; V
Amphibia; Batrachia; Anura; Neobatrachia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cytosol.";
J. Biol. Chem. 267:6518-6525(1992).
SEQUENCE    8 AA; 1047 MW; D72415BB06C37041
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Kanematsu T., Takeya H., Watanabe Y., (
Iwanaga S., Hirata M.;
"Putative inositol 1,4,5-trisphosphate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Rodentia; Sclurognathi; Muridae; NCBI_TaxID=10118;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-MAY-2000 (TrEMBLrel. 13, C
01-MAY-2000 (TrEMBLrel. 13, L
01-MAY-2000 (TrEMBLrel. 13, L
101-MAY-2000 (TrEMBLrel. 13, L
1NOSITOL 1,4,5-TRISPHOSPHATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Submitted (JUN-1996) to the EMBL; X98325; CAA66969.1; -.
                                                                                SEQUENCE
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NCBI_TaxID-10090;
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                                                                                                                 NCBI_TaxID-104895;
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                  Wallace J.(
Australian
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4.7e+05;
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i; Hylidae;
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TRYPTOPHYLIN 5.1.
Litoria rubella (Desert tree frog).
Litoria rubella (Desert tree frog).
Eukaryota; Metazoa; Chordata; Craniata; Ve
Eukaryota; Metazoa; Anura; Neobatrachia;
                                                                                                                             P82065;
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STRAIN-CV. ESSEX; TISSUE-ROOTS;
MANALIngam R., Knap H.T.;
Submitted (FEB-1998) to the EMB
EMBL; AF047050; AAC03556.1; -.
NON_TER 1
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STRAIN-CV. ESSEX; TISSUE-ROOTS;
MEDIATNE-91367679; PubMed-1891369;
Laux T., Goldberg R.B.;
"A plant DNA binding protein shares highly
with HMG-box proteins.";
Nucleic Acids Res. 19:4769-4769(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosid eurosids I; Fabales; Fabaceae; Papillonoideae; Glycine.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Glycine max (Soybean).
Eukaryota; Viridiplantae;
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MOD_RES 6
SEQUENCE 6 AA;
SEQUENCE, AND MASS SPECTROMETRY TISSUE=SKIN SECRETION;
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                              NCBI_TaxID=104895;
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"The structure of new peptides from the Australin red
'Litoria rubella'. The skin peptide profile as a probe
of evolutionary trends of amphibians.";

Aust. J. Chem. 49:955-963(1996).

-I- FUNCTION: MAY ACT AS A NEUROMODULATOR OR NEUROTRAS
-I- TISSUE SPECIFICITY: SECRETED BY THE SKIN DORSAL GI
-I- MASS SPECTROMETRY: MW=965; METHOD=FAB.
                                                                              Homo sapiens (Human)
Eukaryota; Metazoa; (
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
STRAIN-NINE MILE PHASE I;
Willems H., Jaeger C., Baljer G.;
"Physical and genetic map of the obligate intracellular bacterium
SEQUENCE FROM N.A. TISSUE-PLACENTA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bacteria; Proteobacteria; gamma subdivision; Legionellaceae group; Coxiella group; Coxiella.
MCBI_TaxID=777;
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01-NOV-1998 (TrEMBLrel. 08, Last sequence update)
01-NOV-1998 (TrEMBLrel. 08, Last annotation update)
HPOTHETICAL 1.0 KDA PROTEIN (FRAGMENT).
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01-NOV-1998
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Hypothetical protein.
NON_TER 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Coxiella burnetii.
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                                                          NCBI_TaxID=9606;
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Skin; Amidation; PYRROLIDONE CARBOXYLIC
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ilarity 100.0%;
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Primates;
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Pred. No.
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CG11666 PROTEIN.
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MEDLINE-20196006; PubMed=10731132; Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Goca Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A.,
                                                                   Drosophila melanogaster (Fruit fly).
Eukaryota; Metazoa; Arthropoda; Tise
Eukaryota; Neoptera; Endopterygota; Diptera; Brachycera;
Ephydroidea; Drosophilidae; Drosophila.
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
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Hum. Mol. Genet. 0:0-0(0).
                               STRAIN-BERKELEY;
                                       SEQUENCE FROM N.A.
                                                          NCBI_TaxID=7227;
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M.I., Chinault C.A., Baldini A., Lindsay E.A., Zhao Z.Y.,
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RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brandon R.G., Rogers Y.-H.C., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Brandon R.G., Rogers Y.-H.C., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Ballow R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Ballow R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Fosior C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Gana P., Harris M.,
RA Harris N.L., Harvey D., Helman T.J., Hernandez J.R., Houck J.,
RA Harris N.L., Larvey D., Helman T.J., Hernandez J.R., Houck J.,
RA Klammel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Klammel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Klammel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Reinert K., Renington K.A., Nixon K., Nusskern J.R., Puri v., Reese M.G.,
RA Reinert K., Renington K.A., Nixon K., Nusskern J., Murh M., Nelson D.L.,
RA Reinert K., Renington K.A., Nixon K., Nusskern J., Murh M., Nelson D.L.,
RA Reinert K., Renington K.A., Nixon K., Nusskern J., Sine B., Shen H.,
RA Shue B.C., Siden Riamos I., Simpson M., Skupski M.P., Smith T.,
RA Shue B.C., Siden Riamos I., Simpson M., Skupski M.P., Smith T.,
RA Shue B.C., Siden Riamos I., Simpson M., Skupski M.P., Smith T.,
RA Shue B.C., Suppletton M., Strong G., Zhao Q., Zheng L.,
RA Chins R., Noodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,
RA Chins R., Moydold R., Rogers A., Rogers A., Shue S., Shue S., Shue S., Shue S., Shue S., Shue S., Shue S., Shue S., Shue
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                                                                                       TISSUE-CORPORA CARDIACA;

MEDLINE-98010462; PubMed-9350979;

Predel R., Kellner R., Rapus J., Penzlin H., Gaede G.;

"Isolation and structural elucidation of eight kinins from the retrocerebral complex of the American cockroach, Periplaneta
                                                                                                                                                                                                                                                                                                                Periplaneta americana (American cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blattoidea; Blattidae; Periplaneta.
NCBI_TaxID=6978;
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SEQUENCE, AND FUNCTION
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P82686, 01-MAR-2001 (TrEMBLrel. 16,
01-MAR-2001 (TrEMBLrel. 16,
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MEDLING-98010462; PLOMED-950979;
MEDLING-98010462; PLOMED-950979;
Predel R., Kellner R., Rapus J., Penzlin H., Gaede G.
"Isolation and structural elucidation of eight kining retrocerebral complex of the American cockroach, Peri
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blattoidea; Blattidae; Periplaneta.
NCBI_TaxID=6978;
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01-MAR-2001 (TrEMBLrel. 16, Last annotation
01-MAR-2001 (TrEMBLrel. 16, Last annotation
KININ-3 (PEA.K-3).
Periplaneta americana (American Cockroach).
                                 SEQUENCE, AND FUNCTION.
TISSUE-CORPORA CARDIACA;
MEDLINE-98010462; PubMed-9350979;
                                                                                                                                                                                                             Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattoidea; Blattidae; Periplaneta.
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-!- SIMILARITY: BELONGS TO THE KININ FAMILY
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SIMILARITY: BELONGS TO THE KININ FAMILY.
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01-MAR-2001 (TrEMBLrel. 1:
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01-MAR-2001 (TrEMBLrel. 1:
KININ-5 (PEA-K-5).
Periplaneta americana (American cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta; Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria; Blattoidea; Blattidae; Periplaneta.
NCBI_TaxID=6978;
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Periplaneta americana (American cockroach).

Bukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;

Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;

Blattoidea; Blattidae; Periplaneta.
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TISSUE=CORPORA CARDIACA;
MEDLINE=98010462; PubMed=9350979;
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01-MAR-2001 (TrEMBLrel.
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(MYOTROPIC ACTIVITY).
-!- SIMILARITY: BELONGS TO THE KININ FAMILY
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736365A5B9D6DDD8 CRC64;
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Q9TRY3;
01-MAY-2000
01-MAY-2000
01-MAY-2000
      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleos Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neotele Acanthomorpha; Acanthopterygii; Percomorpha; Atherinomorpha; Cyprinodontiformes; Aplocheilidae; Rivulinae; Terranatos.
                                                                                                       O9TD02
O9TD02; PRELIMINARY;
O1-MAY-2000 (TrEMBLrel. 13,
O1-MAY-2000 (TrEMBLrel. 13,
O1-MAY-2000 (TrEMBLrel. 13,
                                                                                             01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAY-2000 (TrEMBLrel. 13, Last annotation update)
CYTOCHROME C OXIDASE SUBUNIT I (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                           MEDLINE-92049376; PubMed=1719383; Shimasaki S., Gao L., Shimonaka M., Ling N.; "Isolation and molecular cloning of insulin-like protein-6."; Mol. Endocrinol. 5:938-948(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           americana";

Regul Pept. 71:199-205(1997).

-!- FUNCTION: MEDIATES VISCERAL MUSCLE CONTRACTILE ACTIVITY
(MYOTROPIC ACTIVITY).

-!- SIMILARITY: BELONGS TO THE KININ FAMILY.

Neuropeptide; Amidation.

MOD_RES

8

AMIDATION.
                                                                       Mitochondrion.
                                                                                  Terranatos dolichopterus.
                                                                                                                                                                                                                                                                                                                                  SEQUENCE
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Mammalia; Eutheria;
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(TrEMBLrel. 13, Last sequence update)
(TrEMBLrel. 13, Last annotation update)
GROWTH FACTOR-BINDING PROTEIN-6, IGFBP
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Pred. No.
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Pred. No.
                                                          Craniata; Vertebrata; Euteleostomi;
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4.7e+05;
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Best Local Similarity
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MEDLINE-98008057; PubMed-9581555; Hospital V., Prat A., Joulie C., Cherif "Human and rat testis express two mRNA \epsilon
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                                                                  SEQUENCE FROM N.A. TISSUE TESTIS;
                                                                                                                         Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=10116;
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01-JAN-1998 (TrEMBLrel.
01-NOV-1998 (TrEMBLrel.
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Jacobs H.T., Asakawa S., Araki T., Miura
"Conserved tRNA gene cluster in starfish
Curr. Genet. 15:193-206(1989).
EMBL, X16886; CAA34767.1; -.
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NCBI_TaxID-7594;
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Asteroidea; Valvatacea; Valvatida;
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Rodentia;
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01-MAR-2001
01-MAR-2001
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Taylor B.A., Wnek C., Phillips S.J.;
"Multiple obesity QTLs identified in an intercross between
(New Zealand obese) and the SM (small) mouse strains.";
Submitted (JUL-2000) to the EMBL/GenBank/DDBJ databases.
EMBL; AF286200; AAG01474.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mammalia; Eutheria; Rodentia;
NCBI_TaxID=10116;
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Eukaryota; Metazoa; Chordata; Craniata; Veri
Mammalia; Eutheria; Rodentia; Sciurognathi;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
38KDA NON-ARGINASE GROWTH INHIBITORY FACTOR (NAGIF)(FRAGMENT).
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EMBL; X93208; CAA63695.1; -.
SEQUENCE 8 AA; 886 MW; EA7EA1B1ADC5
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01-OCT-2000
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HEPATIC STELLATE CELLS (HSC). ALSO INHIBITS
ENDOTHELIAL CELLS AND 3T6 FIBROBLASTS.
-i- SIMILARITY: IDENTICAL TO THE 63-70 AA REGION
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FT MON_TER 1 1013 M9; 297685A76AAB1734 CRC64; SO SEQUENCE 8 AA; 1003 M9; Soore 11; DB 11; Length 8; Best Local Sinilarity 1004; Fred No. 4.7ero5; Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0; Db 8 W 8 Search completed: January 14, 2002, 07:53:46 Job Lime: 726 see	Ouery Match Best Local Similarity Matches 1; Conse. Qy 1 w 1 Db 8 w 8 Search completed: Janua Job time: 726 sec
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Copyright (c) 1993 - 2000 Compugen Ltd
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Claudin-6/9 cyclic
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ALIGNMENTS

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RESULT AAB06764 Claudin-6 modulating agent; claudin-9 modulating agent; cell adhesion recognition sequence; CAR sequence; autoi inflammatory disease; cancer; graft rejection. Blaschuck OW, Claudin-6/9 cell adhesion recognition sequence SEQ ID NO: 03-NOV-1998; 30-MAR-1999; 03-NOV-1999; 11-MAY-2000. W0200026360-A1 Mammalia. AAB06764; (ADHE-) ADHEREX TECHNOLOGIES INC 28-SEP-2000 AAB06764 standard; peptide; ш (first entry) Symonds JM, 98US-0185908 99US-0282029 99WO-CA01029 Gour BJ; œ AA autoimmune disease;

AAB06813

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 70;
The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-6 and claudin-9 groups of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing, and implant adhesion. In addition, they can also be used to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claudin-6 modulating agent; claudin-9 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune inflammatory disease; cancer; graft rejection; cyclic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system
                                                                                                                            Claim 73; Page 104; 121pp;
                                                                                                                                                                        Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
                                                                                                                                                                                                                         WPI; 2000-365610/31
                                                                                                                                                                                                                                                        Blaschuck OW,
                                                                                                                                                                                                                                                                                                                  03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                 03-NOV-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mammalia
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAB06814 standard;
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                                                                                                                                                                                                                                                                                     (ADHE-) ADHEREX TECHNOLOGIES INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity
les 5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 wkxxafxg 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Page 103; 121pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cyclic cell adhesion recognition sequence SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                      Symonds JM,
                                                                                                                                                              skin
                                                                                                                                                                                                                                                                                                                    98US-0185908
99US-0282029
                                                                                                                                                                                                                                                                                                                                                                 99WO-CA01029
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              peptide; 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       85.7%;
62.5%;
                                                                                                                            English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      English.
                                                                                                                                                                                                                                                        Gour BJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 30;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
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                                                                                                                                                                             to tumors and the nervous system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 8;
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RESULT
AAB06916
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local
                                             The present sequence is a peptide which can be used in a claudin-mediated cell adhesion modulator. The claudin group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and this peptide can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         graft rejection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claudin cell adhesion recognition modulating sequence SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAB06916 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         facilitate drug delivery to the desired target site. The present sequence has a cyclic conformation.
                                                                                                                                  Claim
                                                                                                                                                                                                                                                                               03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                      Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claudin modulating agent; cell adhesion recognition sequence;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAB06916;
                                                                                                                                                            and across the skin -
                                                                                                                                                                    Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
                                                                                                                                                                                                                                Blaschuck OW, Symonds JM,
                                                                                                                                                                                                                                                                                                                    03-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                   WO200026360-A1
Sequence
                                                                                                                                                                                                         WPI; 2000-365610/31.
                                                                                                                                                                                                                                                        (ADHE-) ADHEREX TECHNOLOGIES INC
                         to the desired target site
                                    adhesion. In addition, it can also be used to facilitate drug delivery
                                                                                                                                                                                                                                                                                                                                                                                                                              Modified-site
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                                                                                                                                   Page 103; 121pp; English.
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No. 4.3e+05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length
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Query Match Best Local S Matches 5

Similarity 5; Conserv

Conservative

0;

Mismatches

85.7%; 62.5%;

Score 30; Pred. No.

4.3e+05; DB 21;

Length 8;

Indels

0;

Gaps

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RESULT
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ID AABC
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AC AABC
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Best Local
                                                                                                                                Matches
Claudin-3 cyclic cell adhesion recognition sequence SEQ ID NO:
                                                                                                                                                                                                 The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-3 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
                   28-SEP-2000 (first entry)
                                                   AAB06636 standard; peptide;
                                                                                                                                                                                                                                                                                       Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin - \frac{1}{2}
                                                                                                                                                                                                                                                                                                                                                                             03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claudin-3 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                      Claim 52; Page 99; 121pp; English.
                                                                                                                                                                                                                                                                                                                                           Blaschuck OW,
                                                                                                                                                                                                                                                                                                                                                                                                      03-NOV-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claudin-3
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nes 4; Conser
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                                                                                                                                Conservative
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99US-0282029
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Pred. No. 4.3e+05;
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03-NOV-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claudin-4 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
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                            Claim 61; Page 101; 121pp; English.
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99US-0282029.
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50.0%;
                                                                                                                                          JM,
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                                                                                                                                                                     INC.
                                                                                                                                                                                                                                                                                                                                                               inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4.3e+05;
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The

present invention relates to the use of peptides as claudin-mediated

Query Match Best Local Matches

Similarity 4; Conserv

Conservative

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Mismatches

71.4%; 66.7%;

Score 25; Pred. No.

4.3e+05; DB 21;

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claudin-6 modulating agent; claudin-9 modulating agent; cell adhesion recognition sequence; CAR sequence; autoi
                                       The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-6 and claudin-9 groups of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to
                                                                                                                                                                                                                                                                                                                                 03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claudin-6/9 cell adhesion recognition sequence SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
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                                                                                                                                                         Claim 70; Page 103; 121pp; English.
                                                                                                                                                                                      and across the skin
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                           delivery to the desired
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50.0%;
                                                                                                                                                                                                                                                                          JM,
                                                                                                                                                                                                                    claudin-mediated cell adhesion for increasing
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Pred. No. 4.3e
1; Mismatches
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4.3e+05;
                            target site.
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                                                  28-SEP-2000
                                                                                                                                                        AAB06763;
                                                                                                                                                                                                                                                                  AAB06763 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            03-NOV-1998;
30-MAR-1999;
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Pred. No. 4.3e+05;
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Matches 4
                                                                                                                           Claudin-6 modulating agent; claudin-9 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection; cyclic.
                        03-NOV-1999;
                                                                                                                                                                                 Claudin-6/9 cyclic cell adhesion recognition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-6 and claudin-9 groups of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site.
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                                                  11-MAY-2000
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30-MAR-1999;
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30-MAR-1999;
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Pred. No. 4.3e+05;
Pred. No. 4.3e+05; 2;
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                                           The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-6 and claudin-9 groups of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present
                                                                                                                                                                                     Claim 73; Page 103; 121pp; English.
                                                                                                                                                                                                                                  Antibody modulation of claudin-mediated cell adhesion vasopermiability, for delivering drugs to tumors and t
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30-MAR-1999;
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99US-0282029.
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Pred. No. 4.3e+05;
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Query Match

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AAB06796
                      AAB06796 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                  Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys and across the skin - \,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claudin-6 modulating agent; claudin-9 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection; cyclic.
                                                                                                                                                                                                     Sequence
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30-MAR-1999;
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4; Conservative
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99US-0282029.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cell adhesion recognition sequence SEQ
                                                                                                                                                 71.48; 66.78;
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Pred. No.
                                                                                                                                        Mismatches
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Best Local Similarity
Matches 4; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-6 and claudin-9 groups of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic conformation.
                                                                                                                                                                                                                                                                                                                Claudin-6 modulating agent; claudin-9 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                    Claudin-6/9 cyclic cell adhesion recognition sequence SEQ ID NO: 375.
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RESULT 18
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Best Local Similarity
Thes 3; Conserve
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                                                           can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
                                                                                                         The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAR sequence; autoimmune graft rejection; cyclic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                       Claim·43;
                                                                                                                                                                                                                                  Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system
                                                                                                                                                                                                                                                                                                                                                                               03-NOV-1998;
30-MAR-1999;
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                               conformation.
                                             adhesion. In addition, they can also be used to facilitate dru
to the desired target site. The present sequence has a cyclic
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                                                                                                                                                                                       Page 97; 121pp; English.
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99US-0282029.
                                                                                                                                                                                                                                                                                                                  Symonds
                                                                                                                                                                                                                                                                                                                                                                                                                             99WO-CA01029
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Pred. No. 4.3e+05;
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Best Local Similarity
Watches 3; Conserv
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                                                                                                                       Query Match
Best Local :
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                                                                                                                                                                                         The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-3 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and ald wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
AAB06634;
                                                                                                                                                                                                                                                                                               Claudin-3 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                  AAB06634 standard;
                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                            Claim 52; Page 99; 121pp; English.
                                                                                                                                                                                                                                                                                                                                         WPI; 2000-365610/31.
                                                                                                                                                                                                                                                                                                                                                             Blaschuck OW,
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30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    graft rejection
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAB06581;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAB06581 standard;
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99US-0282029
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                  peptide; 6
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Pred. No. 4.3e
1; Mismatches
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Pred. No. 4.3e+05;
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. 4.3e+05;
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Best Local S
Matches 3
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                                                                                                                                                                       Claudin-4 modulating agent; cell a CAR sequence; autoimmune disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             graft rejection.
                                                                                                                                                                                                                                              Claudin-4 cell adhesion recognition sequence SEQ ID NO: 48.
                                                                                                                                                                                                                                                                                                                                                                                                    AAB06643 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 55;
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                                                 WO200026360-A1
                                                                                                      Mammalia
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30-MAR-1999;
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3; Conservative
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99US-0282029
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1; Mismatches
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. 4.3e+05;
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RESULT :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claudin-4 cyclic cell adhesion recognition sequence SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28-SEP-2000
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                                     The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-3 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
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Best Local :
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                AAB06644 standard; peptide; 7 AA.
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30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin -  \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac
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Copyright (c) 1993 - 2000 Comm
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US-08-321-625-86
                                                                                                                                                                                                                                                                                                                                                                                              Sequence 86, Applia Patent No. 5639860
                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
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APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
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                                                                                                                                                                                                                    STREET: 1300 No. CITY: Arlington STATE: VA
                                                                                                                                                                                                    COUNTRY: US
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US-08-347-397-13	US-08-347-397-9	US-08-347-397-8	US-08-347-397-7	US-08-347-397-2	US-08-477-134-97	US-08-462-720-19	US-08-477-362-97	US-08-467-025-1	US-08-470-932-1	US-08-475-751-5	US-08-475-751-1	5-7	US-08-485-886-97	US-08-475-263-97	US-07-902-935-1	US-08-416-007-5	US-08-416-007-1	US-07-789-184-97	US-08-486-057B-22	US-08-332-071B-2	US-08-332-071B-1	US-07-973-235A-19
Sequence 13, Appl	Sequence 9, Appli	Sequence 8, Appli	Sequence 7, Appli	Sequence 2, Appli	Sequence 97, Appl	Sequence 19, Appl	Sequence 97, Appl	Sequence 1, Appli	Sequence 1, Appli	Sequence 5, Appli	Sequence 1, Appli	Sequence 2, Appli	Sequence 97, Appl	Sequence 97, Appl	Sequence 1, Appli	Sequence 5, Appli	Sequence 1, Appli	Sequence 97, Appl	Sequence 22, Appl	Sequence 2, Appli	Sequence 1, Appli	Sequence 19, Appl

ALIGNMENTS

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SEQUENCE 86, Application US/08321625

PATHENT NO. 5639860

GENERAL INFORMATION:
APPLICANT: MORISHITA, YOShikazu
APPLICANT: MAKINO, Mike
APPLICANT: MAKINO, Mike
APPLICANT: MAKINO, Mike
APPLICANT: MAKINO, Mike
APPLICANT: YOSHIDA, Mayumi
APPLICANT: YOSHIDA, Mayumi
APPLICANT: YOSHIDA, Mayumi
APPLICANT: YOSHIDA, Mayumi
APPLICANT: YOSHIDA, Mayumi
APPLICANT: YAMAGUGHI, Kazuo
APPLICANT: YAMAGUGHI, Kazuo
APPLICANT: MATSUDA, YUZURU
TITLE OF INMENTION: ENDOTHELIN ANTAGONIZING PEPTIDE
NUMBER OF SEQUENCES: 92
CORRESPONDENCE ADDRESS:
ADDRESSEE: ANTONELLI, TERRY, STOUT & KRAUS
STREET: 1300 NO. 5639860th Seventeenth Street, Suite 1800
CITY: ALINGTON
STATE: VA
COUNTRY: USA
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.30
COMPUTER: 12-OCT-1994
CLASSIFICATION NUMBER: US/08/321,625
FILING DATE: 12-OCT-1994
CLASSIFICATION NUMBER: 20,178
REFERENCE/DOCKET NUMBER: 506.32366PX1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-312-6600
INFORMATION FOR SED UD NO: 86:
SEQUENCE CHARACTERISTICS:
LENGTH: 7 amino acidd
STRANDEDNESS: single
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; ANTI-SENSE: NO; ; FRAGMENT TYPE: US-08-321-625-86
                                                           В
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US-08-500-956-2
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RESULT 3
US-08-495-508-3
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                    INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER: IBM PC COMPARIBLE

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PATENTIN Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/500,956

FILING DATE: 09-AUG-1995

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: SADOFF: N. T.
                                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                          REGISTRATION NUMBER: 36,663
REFERENCE/DOCKET NUMBER: 600
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202/861-3000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: RUCHETON, MARCEL
APPLICANT: GRAAFLAND, HUBERT
TITLE OF INVENTION: METHOD FOR DETECTING VIRAL COMPOUNDS
TITLE OF INVENTION: USING A VIRAL PROTEIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE: peptide HYPOTHETICAL: NO
                                                    2 WKSDA 6
                                                                                                                                                                                                                                      TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY: U.S.A. ZIP: 20005-3918
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET: 1100 NEW CITY: WASHINGTON STATE: D.C.
                                                                                                                                                                                                                           TOPOLOGY:
                                                                                                                                                                                                                                                                                                TELEFAX: 202/822-0944
TELEX: 6714627 CUSH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADDRESSEE: CUSHMAN DARBY & CUSHMAN, IP GROUP OF ADDRESSEE: PILLSBURY MADISON & STREET: 1100 NEW YORK AVENUE, N.W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY: linear
                                                                                                                                                                                                                                                   LENGTH:
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                                                                                                                                                                                                                                                     7 amino acids
                                                                                                                      Conservative
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                                                                                                                                  Score 19; DB 1;
Pred. No. 1.6e+05;
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Pred. No. 1.6e+05;
                                                                                                                      Mismatches
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                                                                                                                                                Length 7;
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Best Local Similarity
Thehes 3; Conserv
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APPLICANT: STEFAS
                                                                                                                      GENERAL INFORMATION:
                                                                      APPLICANT:
APPLICANT:
APPLICANT:
                             APPLICANT:
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STREET: Washington
CITY: Washington
STATE: D.C.
" S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                           APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
   APPLICANT:
                  APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: U.S.A.
ZIP: 20005-3918
                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY: 111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH:
                                                                                                                                                                                                                           2 WKSDA 6
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                                                                                                                                                                                                                                                                                                                                                                                                                 amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                  7 amino acids
   BANDO, Chieko
                           TSUKUDA,
                                          KAWAMOTO,
                                                                                                      TANAKA,
                YOSHIDA, Mayumi
                                                                                        MORISHITA,
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US-09-181-083-86

; Sequence 86, Application US/09181083

; Patent No. 6194195
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Patent No. 5859213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEPHONE: (202) 861-3000
TELEFAX: (202) 822-094
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
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CORRESPONDENCE ADDRESS:
ADDRESSE: CUSHMAN DARBY & CUSHMAN
ADDRESSEE: Intellectual Property Group of
ADDRESSEE: PILLSBURY MADISON & SUTRO LLP
STREET: 1100 New York Avenue, N.W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE/DOCKET NUMBER: 21
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 861-3000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: PCT/FR94/00143
FILING DATE: 09-FEB-1994
ATTORNEY/AGENT INFORMATION:
NAME: SADOFF, B.J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: FR 9: FILING DATE: 09-FEB-1993 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/08 FILING DATE: 23-OCT-1995 CLASSIFICATION: 530 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RUCHETON, MARCEL
GRAAFLAND, HUBERT
GRAAFLAND, HUBERT
COMPOSITION,
VENTION: AQUEOUS PROTEIN COMPOSITION,
VENTION: GLYCOPROTEIN CONTAINED THEREIN, PREPARATION METHOD
                                         MAKINO, Mika
CHIBA, Shigeru
                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STEFAS, ELIE
                                                                                                    Takeo
), Isao
Eiji
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                                                                                     Yoshikazu
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Pred. No. 1.6e+05;
0; Mismatches 2
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Best Local Similarity
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                                                                                                                                                                 Sequence 1, Application US/08240511
Patent No. 5643722
GENERAL INFORMATION:
APPLICANT: ROTHSCHILD, Kenneth J.
APPLICANT: SONAR, Sanjay M.
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS:
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/
FILING DATE: 12-OCT-1994
ATTORNEY/AGENT INFORMATION:
NAME: TERRY, David T.
REGISTRATION NUMBER: 20,17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE/DOCKET NUMBER: 506.32366PX1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-312-6600
TELEPAX: 703-312-6666
INFORMATION FOR SEQ ID NO: 86:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MOLECULE TYPE:
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE:
                                        COUNTRY: USA
ZIP: 20004-2400
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
LENGTH: 7 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
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NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: YAMAGUCHI, Kazuo
APPLICANT: MATSUDA, Yuzuru
                                                                                                             STREET: 1299 ECCETY: Washington
         COMPUTER: IBM CONTROL OPERATING SYSTEM:
                                                                                         COUNTRY:
                                                                                                                                     ADDRESSEE: BAKER & BOTTS, L.L.P. STREET: 1299 Ponnsylvania Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: amino acid
STRANDEDNESS: sir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET: 1300 No. CITY: Arlington STATE: VA
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                                                                                                                                                                                                                                                                                                                                                            3 WKCTA 7
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                      IBM Compatible
FastSEQ Version 1.5
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R: 20,178
SO/
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Pred. No.
                                                                                                                                       Avenue, N.W
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Best Local Similarity
Thes 3; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 263,
                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
TELEFAX: (415) 324-0960 INFORMATION FOR SEQ ID NO: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 5 amino acids
                                          REGISTRATION NUMBER: 33,875
REFERENCE/DOCKET NUMBER: 86
TELECOMMUNICATION INFORMATION:
                                                                           ATTORNEY/AGENT INFORMATION:
NAME: Fabian, Gary R.
REGISTRATION NUMBER: 33,
                                                                                                                                                                       SOFTWARE: PatentIn Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: WD-40 - Derived TITLE OF INVENTION: Thereof NUMBER OF SEQUENCES: 265
CORRESPONDENCE ADDRESS: ADDRESSE: Dehlinger & Associates
                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Mochly-Rose
APPLICANT: Ron, Dorit
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APPLICATION NUMBER: US
FILING DATE: 11-MAY-19
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CITY: Palo Alto
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PRIOR APPLICATION DATA:
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                                                                                                                        APPLICATION NUMBER: FILING DATE: 01-FEE CLASSIFICATION: 530
                               TELEPHONE:
                                                                                                                                                                                                     COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                   MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEPHONE: 202-639-77
TELEFAX: 202-639-7890
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                                                                                                                                                                                                                                                                                  COUNTRY:
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STRANDEDNESS: si
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5519003
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                                                                                                                                                                                                                                                                                    USA
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                               (415) 324-0880
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Pred. No. 1
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; INDIVIDUAL ISOLATE: WRTAA peptide US-08-190-802A-263
                                                         ; ORIGINAL SOURCE:
; INDIVIDUAL ISO
US-08-477-346-263
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Best Local Similarity
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Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/487,072
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER: IBM PC COMPUTIBLE OPERATING SYSTEM: PC-DOS/MS-DOS SOTWARE: Patentin Release #1.0, CURRENT APPLICATION DATA:
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MEDIUM TYPE: Floppy disk
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REFERENCE/DOCKET NUMBER: 25
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
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                                                                                                        ANTI-SENSE:
                                                                                                                    MOLECULE TYPE:
HYPOTHETICAL:
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                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/OFFILING DATE: 07-JUN-1995 CLASSIFICATION: 514
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STRANDEDNESS: sir
                                                                                                                                                  TYPE: amino acid
STRANDEDNESS: sin
TOPOLOGY: linear
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ZIP: 20006-1812
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Pred. No.
Score 17;
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 DB 4;
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Best Local Similarity
"~+ches 2; Conserve
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LENGTH: 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING TITLE OF INVENTION: AND TREATING CONDITIONS, DISORDERS, OR DISEASES INVOLVING TITLE OF INVENTION: CELL DEATH FILE REFERENCE: 10001-005-999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/09/461,697 CURRENT FILING DATE: 1999-12-14
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APPLICANT: Puranam, Kasturi
APPLICANT: Katz, Lawrence C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Barney, Shawn APPLICANT: Thomas, Mary Beth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: COGENT NEUROSCIENCE, Inc. APPLICANT: Lo, Donald C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 466 SOFTWARE: FastSEQ for Windows Version 4.0
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APPLICANT:
APPLICANT:
                        STREET: 43.
STREET: 43.
CITY: San Diego
STATE: California
finited St
                                                                                                                                                                                                                                                                                                     APPLICANT: Houghten, Richard A.
TITLE OF INVENTION: PEPTIDES HAVING ANTI-MICROBIAL,
TITLE OF INVENTION: HEMOLYTIC, ANTI-MELITTIN OR ANTI-ENZYMATIC ACTIVITY
                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
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                ATTORNEY/AGENT INFORMATION:
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Campbell, Cathryn A.
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4370 La Jolla Village Drive, Suite 700
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                                                                                                                                                                                         United States of America
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100.0%; Pred. No.
Live 0; Mismatc
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NAME/KEY: Modified:
LOCATION: 4
COTHER INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb
MEDIUM TYPE: Storage
COMPUTER: IBM PC/XT/AT, IBM PS/2 or
COMPUTER: Compatibles
OPERATING SYSTEM: PC-DOS or MS-DOS
SOFTWARE: Wordberfect 6.0a for Windows
CURRENT APPLICATION DATA:
                              FILING DATE: 03-JAN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Deborah A. Peacock
                                                                           APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Zamora, Paul O.
APPLICANT: Rhodes, Buck A.
TITLE OF INVENTION: Peptid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEPHONE: (619) 535-9001
TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
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                                                                                                          APPLICATION NUMBER: US/07/840,077A FILING DATE: 20-FEB-1992 CLASSIFICATION:
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OTHER INFORMATION:
OTHER INFORMATION:
               NAME: Doborah A. Peacock REGISTRATION NUMBER: 31,649
                                                                                                                                                                                                                                                                                         ZIP: 87109-5802
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2 W 3
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                                                                                                                                                                                                                                                                                                                                   Albuquerque
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                                                                                                                                                                                                                                                                                                                                                                       RhoMed Incorporated
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/note= "Xaa
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                                                                             07/816,477
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; ANTI-SENSE:
JS-08-454-950-7
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Best Local Similarity
Matches 2; Conserv
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                                                                                                                                                                      REGISTRATION NUMBER: 31,649
TELECOMMUNICATION INFORMATION:
TELEPHONE: (505) 242-9677
                                                                                                                                                                                                                                                                                                CLASSIFICATION: 424
PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: 07/840,077
                                                                                                                                                                                                                                                                                                                                               SOFTWARE: WordPerfect 6.0a for Windows CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/454,950 FILING DATE: 31-MAY-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 mb
MEDIUM TYPE: Storage
                              HYPOTHETICAL:
                                          TOPOLOGY: 11
                                                                                                                          SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                       ATTORNEY/AGENT INFORMATION:
NAME: Deborah A. Peacock
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Rhomed Incorporated
STREET: 4261 Balloon Park
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                                                                          TYPE: amino acid
STRANDEDNESS: sir
                                                                                                                                                                                                                                                       APPLICATION NUMBER: 07/840,077
FILING DATE: 20 FEB-1992
APPLICATION NUMBER: 07/816,477
FILING DATE: 03-JAN-1992
                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: COMPATIBLES
OPERATING SYSTEM: PC-I
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STRANDEDNESS: sin
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                                                                                                          LENGTH:
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87109-5802
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Pharmaceutical Preparation and Method
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Best Local Similarity
"hes 2; Conserv?
                                                                US-08-434-761-3
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Query Match
Best Local Similarity
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CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/07
APPLICATION NUMBER: US 08/07
APPLICATION NUMBER: US 08/07
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
NAME: Campbell, Cathryn A.
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/434,761
FILING DATE:
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MEDIUM TYPE: Floppy disk
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APPLICANT: Houghten, Richard A.
TITLE OF INVENTION: EDETIDES HAVING ANTI-MICROBIAL,
TITLE OF INVENTION: HEMOLYTIC, ANTI-MELITTIN OR ANTI-ENZYMATIC ACTIVITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                           REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-HP 9648
TELECOMMUNICATION INFORMATION:
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OTHER INFORMATION:
OTHER INFORMATION:
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                                                                                                                     LOCATION:
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ZIP: 92122
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                                                                                                                                       NAME/KEY:
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                                                                                                                                                                                                                                                                                                           NAME/KEY: Modified-site
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California
RY: United States of America
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) ID NO: 3:
45.7%;
100.0%;
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                                                                                  /note= "C-terminal amino acid
amidated"
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/note= "Xaa=any amino acid"
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 Score 16;
Pred. No.
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 DB 1; L
1.6e+05;
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                 Length 4;
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US-08-454-949-7
; Sequence 7, Application US/08454949
; Patent No. 5759516
; GENERAL INFORMATION:
; APPLICANT: Zamora, Paul O.
; APPLICANT: Rhodes, Buck A.
; TITLE OF INVENTION: Peptide-Metal
TITLE OF INVENTION: Pharmaceutica
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US-08-338-890B-1
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Matches
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NAME: Malinoski, Lynn
REGISTRATION NUMBER: 38,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Floppy disk
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                                               NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
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FILING DATE: NOV. 14, 1994
CLASSIFICATION: 530
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CITY:
STATE:
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Albuquerque
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                          E: RhoMed Incorporated 4261 Balloon Park
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Spanevello, Rolando
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530
                                                                                 Pharmaceutical Preparation and Method
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100.0%; Pred. No. 1.1
tive 0; Mismatches
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hes 0;
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COUNTRY: U.S.A. ZIP: 87109-5802

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Best Local Similarity 100.
Thes 2; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 8, Application US/08671487A Patent No. 5955577
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APPLICATION NUMBER: 07/840,07
FILING DATE: 20-FEB-1992
APPLICATION NUMBER: 07/816,47
FILING DATE: 03-JAN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Deborah A. Peacock
REGISTRATION NUMBER: 31,649
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                      Atent No. 33331.
CENERAL INFORMATION:
MAYO, KEVIN H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEPHONE: (505) 242-9677
TELEFAX: (505) 243-2542
INFORMATION FOR SEQ ID NO: 7:
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MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb
MEDIUM TYPE: Storage
COMPUTER: ISM PC/XT/AT, IBM PS/2 or
COMPUTER: compatibles
OPERATING SYSTEM: PC-DOS or MS-DOS
SOFTWARE: WordPerfect 6.0a for Windows
CURRENT APPLICATION DATA:
                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/671,487A
FILING DATE: 27-JUN-1996
CLASSIETICATION: 530
ATTORNEY APPLICATION: 530
CLASSIFICATION:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: MCCORMACK, MYRA H.
NAME: MCCORMACK, MYRA H.
05,602
                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION: SYNTHETIC APPROACH TO DESIGNED CHEMICAL TITLE OF INVENTION: STRUCTURES NUMBER OF SEQUENCE: 8 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY: lines
MOLECULE TYPE: PO
HYPOTHETICAL: NO
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                                                                                                                                                                                                                                                                                                    ADDRESSEE: MUETING, RAASCH, GEBHARDT & SCHWAPPACH, P.A STREET: 203 TEXTILE BUILDING, 119 NORTH FOURTH STREET CITY: MINNEAPOLIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US/O FILING DATE: 31-MAY-1995 CLASSIFICATION: 424
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1 H 2
2 WK 3
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STRANDEDNESS: sir
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/ 100.0%; Pr
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Pred. No. 1.6e+
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; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-340-208B-1
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Best Local Similarity
"herhes 2; Conserve
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US-08-340-208B-1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 1, Application US/08340208B
Patent No. 5955694
GENERAL INFORMATION:
APPLICANT: Hirschmann, Ralph
APPLICANT: Spanevello, Rolando
TITLE OF INVENTION: Somatostatin Mimics and Synthetic
TITLE OF INVENTION: Methods Therefor
                                               Best
                               Matches
                                                          Query Match
                                                                                                                                                                                                      TELEFAX: (215)568-343 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM PC COMPATIBLE

OPERATING SYSTEM: MS-DOS/WINDOWS

SOFTWARE: WORDDERFECT SAVED AS ASCII (DOS) TEXT(*.*)

CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz & No.
STREET: One Liberty Place, 46th Floor
                                                                                                                                                                                                                                                NAME: Malinoski, Lynn
REGISTRON NUMBER: 38,788
REFERENCE/DOCKET NUMBER: UP
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US/01 FILING DATE: NOV. 16, 19: CLASSIFICATION: ATTORNEY/AGENT INFORMATION:
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MEDIUM TYPE: Floppy disk
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TELECOMMUNICATION INFORMATION:
TELEPHONE: 612-305-1225
                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
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                             Local Similarity hes 2; Conserva
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ZIP: 19103
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STRANDEDNESS: single
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(215)568-3439
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                               Conservative
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                                                                                                                                                                                                                                                                       , Lynn
38,788
                                          45.7%;
100.0%;
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100.0%; Pred. No.
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                                             Score 16; DB 2; Pred. No. 1.6e+(
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                                             1.6e+05;
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RESULT 18
US-08-651-179B-3
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US-08-651-179B-2
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                                                                                                                                                   Sequence 3, Application US/08651179B Patent No. 5985240 GENERAL INFORMATION:
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Patent No. 5985240
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OPERATING SYSTEM: PC-DOS OF MS-DOS
SOFTWARE: WordPerfect 6.1 for Windows
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/651,179B
FILING DATE: 21-MAY-1996
CLASSIFICATION: 424
CLASSIFICATION: 424
                                                                               APPLICANT: Zamora, Paul O.; Rhodes, Buck A.; Ma
APPLICANT: Michael J
TITLE OF INVENTION: Peptide Radiopharmaceutical
TITLE OF INVENTION: Applications
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
MEDIUM TYPE: Storage
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LENGTH: 4 amino acids
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 527,7700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: 08/447,453
FILING DATE: 23-MAY-1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: Peptide Radio TITLE OF INVENTION: Applications
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Zamora, Pa
APPLICANT: Michael J.
                                                CORRESPONDENCE ADDRESS
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                                                                    NUMBER OF SEQUENCES:
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ZIP: 10022
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CITY: New York
                 STREET:
                                ADDRESSEE:
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                805 Third Ave
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                                                                                                                                     Zamora, Paul O.; Rhodes, Buck A.; Marek,
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                                Darby & Darby P.C
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1.6e+05;
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Best Local Similarity
Thehes 2; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT
                                                                                                                                                                                                                                                                                                                                           Sequence 1, Application US/08997263 Patent No. 6001960
GENERAL INFORMATION:
APPLICANT: Hirschmann, Ralph
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: (212) 753-62
INFORMATION FOR SEQ ID NO:
                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDDERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/338,890
FILING DATE: NOV. 14, 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
LENGTH: 4 amino acids
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OPERATING SYSTEM: PC-DOS or MS-DOS
SOFTWARE: WordPerfect 6.1 for Windows
CURRENT APPLICATION DATA:
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TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                 APPLICANT: Nutt, RITTLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                               APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HYPOTHETICAL:
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                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES:
                                                                                                                                                                                                          STREET: One L. CTTY: Philadelphia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: FILING DATE: 21-MACCLASSIFICATION: 42
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MEDIUM TYPE: Storage
COMPUTER: IBM PC/XT/AT, IBM PS/2 or
                                           FILING DATE: CLASSIFICATION:
                                                                                                                                                                                COUNTRY: U:
ZIP: 19103
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                                                                          APPLICATION NUMBER:
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                                                                                                                                                                                              USA
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753-6237
                                                                                                                                                                                                                                                                                                   Synthetic Somatostatin Mimics
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100.0%; Pred. No.
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                                                                       us/08/997,263
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ATTURNEY/AGENT INFORMATION:

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 20
US-09-315-861-5
Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 5, Application US/09315861 Patent No. 6114160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 45.7%; Score 16; Bost Local Similarity 100.0%; Pred. No. Matches 2; Conservative 0; Mismatcl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
APPLICANT: ROCINCY B. Croteau, Mark R. Wildung
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TAXOL
TITLE OF INVENTION: BIOSYNTHESIS
NUMBER OF SEQUENCES: 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: (215)568-3439
INFORMATION FOR SEQ ID NO: 1:
                                                                                                                                                           TELEFAX: (503) 228-9446
INFORMATION FOR SEQ ID NO: 5
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                APPLICATION NUMBER: 08/843,363
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Donald L. Stephons Jr.
REGISTRATION NUMBER: 34,022
REFERENCE/DOCKET NUMBER: 4630-46842/DLS
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC compatible OPERATING SYSTEM: MS DOS SOFTWARE: WordPerfect 5.1 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/09/3:
                                                                                                                                                                                                                                                                                                                                                            FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Disk, 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
ADDRESSEE: Donald L. Stephens Jr.
STREET: One World Trade Center
STREET: 121 S.W. Salmon Street
STREET: Suite 1600
CITY: Portland
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
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                                                                                                          TYPE: amino acid
STRANDEDNESS: si
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY: U
ZIP: 97204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 WK 2 WK 3
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TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEPHONE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REGISTRATION NUMBER: 38,788
REFERENCE/DOCKET NUMBER: UPN-2040
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                                                                                                                                            ENGTH:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Oregon
                                                                                                                                              4 amino acid residues
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                                                                                          linear
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                                                                                                        single stranded
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45.7%;
100.0%;
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Score 16;
Pred. No.
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1.6e+05;
                  DB 3;
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               Length 4;
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GENERAL INFORMATION:
APPLICANT: Greve, Jeffrey M.
APPLICANT: McClelland, Alan
APPLICANT: McClelland, Alan
APPLICANT: McClelland, Alan
APPLICANT: Davis, Gary
TITLE OF INVENTION: Soluble Truncated Forms of ICAM-1
FILE REFERENCE: MCI 208.4C2D2
CURRENT APPLICATION NUMBER: US/08/435,568A
CURRENT FILING DATE: 1995-05-05
NUMBER OF SEQ ID NOS: 34
SOFTMARE: Patentin Ver. 2.1
SEQ ID NO 19
LENGTH: 4
TYPE: PRT
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Best Local Similarity
""" Ches 2; Conserv?
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                                                                                                                                                US-08-435-568A-19
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                                  Query Match
Best Local Similarity 100.
Thes 2; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OTHER INFORMATION: Sequence of a peptide synthesized in Example 4 from L-form Patent No. 6127339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: I
SEQ ID NO 25
                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 19, Application US/08435568A Patent No. 6143298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
APPLICANT: Hatanak
APPLICANT: Aritomi
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: JP 7-176904
PRIOR FILING DATE: 1995-06-21
PRIOR APPLICATION NUMBER: PCT/JP96/01:
PRIOR FILING DATE: 1996-06-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION NUMBER: US/08/981,122B CURRENT FILING DATE: 1997-12-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: FILE REFERENCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 4
TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                             ORGANISM: Homo sapiens
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1 WK 2
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PatentIn Ver. 2.0
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100.0%; Pr
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                                                         45.7%; Score 16; DB
100.0%; Pred. No. 1.
tive 0; Mismatches
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Pred. No.
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                                                           1.6e+05;
hes 0;
                                                                                            DB 4;
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1.6e+05;
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                                                                                            Length 4;
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Query Match
Best Local Similarity
Watches 2; Conserva
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                                                                                                                                                                                                                                                                                        RESULT 24
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Sequence 29, App
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GENERAL INFORMATION:
                                                                                                                                                                                                                                        Sequence 30, Application US/08682767 Patent No. 6291741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
NAME: White, John P
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 5173
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-278-0400
                                                                                                                                                                                                                           GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: 212-391-0526 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: ME NUMBER OF SEQUENCES: 3 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
CUMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                          CORRESPONDENCE ADDRESS
                                                                                                                                                                                             TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: peptide
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS
                                                                                                                                                                            NUMBER OF SEQUENCES:
                                                                          ADDRESSEE: Coope.
STREET: 1185 Ave.
CITY: New York
STATE: New York
COUNTRY: U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STREET: 1185 A
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1 | 1 | 3 WK 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: amino acid
STRANDEDNESS: sir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: FILING DATE: 30-Jul
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE:
                                                               COUNTRY: U
ZIP: 10036
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                                                                                                                            E: Cooper & Dunham LLP
1185 Avenue of The Americas
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                                                                                                                                                                                           METHODS FOR THE PRODUCTION OF MODIFIED PLANTS
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Pred. No.
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RESULT 25
US-07-657-769B-36
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Best Local Similarity
"hes 2; Conserv
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US-07-657-769B-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 36, Application US/07657769B Patent No. 5256766 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEFAX: 212-391-0526
INFORMATION FOR SEQ ID NO:
                                                                                                 TELEX: 706141
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: COUGHLIN, SHAUN R.
TITLE OF INVENTION: RECOMBINANT RECE
TITLE OF INVENTION: PHARMACEUTICALS
NUMBER OF SEQUENCES: 69
CORRESPONDENCES ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY: linear MOLECULE TYPE: peptide HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELECOMMUNICATION INFORMATION: TELEPHONE: 212-278-0400 TELEFAX: 212-391-0526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
NAME: White, John P
REGISTRATION NUMBER: 28,
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO) CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS
                                                                                                                                REFERENCE/DOCKET NUMBER: 20
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-327-7250
TELEPHAX: 415-327-2951
                                                                                                                                                                                                               ATTORNEY/AGENT INFORMATION: NAME: MURASHIGE, KATE H.
                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ANTI-SENSE:
                                                                               SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY:
ZIP: 940
                                                                                                                                                                                         REGISTRATION NUMBER: 2
                                                                                                                                                                                                                                                APPLICATION NUMBER: FILING DATE: 19910: CLASSIFICATION: 43
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: amino acid
STRANDEDNESS: si
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US/08/682,767
                             STRANDEDNESS:
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VENTION: RECOMBINANT RECEPTOR AND RELATED
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100.0%; Pred. No. 1.
tive 0; Mismatches
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Run
Title:
Perfect score:
                                                                                                                          OM protein - protein search, using sw model
   09-185908-1E
36
                                                                                      January 14, 2002, 07:44:22;
                                                                                                                                                                           GenCore version 4.5
Copyright (c) 1993 - 2000 Comp
                                                                                                                                                                             Compugen Ltd
                                                   Search time 43.28 Seconds (without alignments)
14.080 Million cell updates/sec
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219241 seqs, 76174552 residues

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

Total number of hits satisfying chosen parameters: 602

Minimum DB Maximum DB seq length: 0

Post-processing: Minimum Match Maximum Match Listing first 1 0% 1 100% 50 summaries

PIR_68:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Database

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	0	رب ر	4	ω	ผ	_	Result
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dehydrogen	receptor	receptor	y chain	y chain	nin-potent	pentapeptide	ptide -	ike protein	cholecystokinin-	receptor		y chain	related neuro	2-monooxyg	bradykinin-potent		ast growth	cholecystokinin	cholecystokinin		T-cell receptor	heavy chain	Met-enkephalin	_		neuromodulatory	neuromodulatory	dulatory	tion
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30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	•	30.6	•	30.6	•	30.6	30.6
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S09652	S57274	A61081	A58512	S21230	A60139	NYPG7	179564	PD0028	F41946	PT0726	PT0641	PT0637	PT0519	PT0532	PT0629	B35640	A61068	в31263	A31263	B34835
hypothetical prote	triacylglycerol li	tryptophyllin, bas	venom heptapeptide	dermorphin (Trp-4,	fatty-acid synthas	hypothalamic hepta	hypothetical TCL3	pev-kinin 2 - pena	T-cell receptor ga	T-cell receptor be	T-cell receptor be	T-cell receptor be	T-cell receptor be	T-cell receptor be	T-cell receptor be	cerebellar degener	locustakinin - mig	dihydrofolate redu	dihydrofolate redu	dnaA protein - Pse

ALIGNMENTS

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neuromodulatory peptide WWamide-1 - giant African snail
C; Species: Achatina fulica (giant African snail)
C; Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 24-Jul-1997
C; Accession: S3324
FR, Minakata, H.; Ikeda, T.; Muneoka, Y.; Kobayashi, M.; Nomoto, K.
FEBS Lett. 323, 104-108, 1993
A; Title: WWamide-1, -2 and -3: novel neuromodulatory peptides isolated from ganglia A; Reference number: S33244; MUID:93265912
A; Accession: S33244
A; Status: preliminary
A; Molecule type: protein
A; Residues: 1-7 <MIN>
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R;Minakata, H; Ikeda, T; Muneoka, Y; Kobayashi, M; Nomoto, K.
FEBS Lett. 323, 104-108, 1993
A;Title: WWamide-1, -2 and -3: novel neuromodulatory peptides isolated from ganglia A;Reference number: S33244; MUID:93265912
A;Accession: S33245
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-7 <MIN>
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S33244
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C;Species: Achatina fulica (giant African snail)
C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 24-Jul-1997
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Pred. No. 2.2e+05;
1; Mismatches 2;
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Pred. No. 2.2e+05;
0; Mismatches 2;
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RESULT 4
$63493
$63493
dissimilatory sulfite reductase gamma chain, membrane-bound and soluble - Desulfovibrio C;Species: Desulfovibrio desulfuricans
C;Date: 28-Oct-1996 #sequence_revision 13-Mar-1997 #text_change 17-Mar-1999
C;Accession: $63493; $63494
C;Accession: $63493, $63494
A;Molecule type: protein
A;Residues: 1-5 <LEU>
A;Experimental source: pedal ganglia
C;Keywords: neuropeptide; opioid pep
                                                                            Proc. Natl. Acad. Sci. U.S.A. 81, 955-958, 1984
A;Title: Isolation and identification of enkephalins
A;Reference number: A61445; MUID:84144823
A;Accession: B61445
                                                                                                                                                                                       Leu-enkephalin - blue mussel
C;Species: Mytilus edulis (blue mussel)
C;Date: 07-0ct-1994 #sequence_revision 07-0ct-1994 #text_change 21-Jan-2000
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B61445
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Eur. J. Biochem. 233, 873-879, 1995
A;Title: Molecular properties of the dissimilatory sulfite reductase from Desulfovibrio A;Reference number: S63489; MUID:96085152
A;Accession: S63493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   R;Minakata, H.; Ikeda, T.; Muneoka, Y.; Kobayashi, M.; Nomoto, K. FEBS Lett. 323, 104-108, 1993
A;Title: WWamide-1, -2 and -3: novel neuromodulatory peptides isolated A;Reference number: S33244; MUID:93265912
A;Accession: S33246
                                                                                                                                                      R; Leung, M.K.; Stefano, G.B.
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A;Molecule type: protein
A;Residues: 1-7 <MIN>
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C;Species: Achatina fulica (giant African snail)
C;Date: 19-Mar 1997 #sequence_revision 19-Mar-1997 #tex:
C;Accession: S33246
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A; Status: preliminary
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: 1-8 <ST2>
       neuropeptide; opioid peptide
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Pred. No. 2.2e
1; Mismatches
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A41946
T-cell
                                                    T-cell receptor gamma chain (1t.22) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 07-May-1999
C;Accession: A41946
R;Whetsell, M.; Mosley, R.L.; Whetsell, L.; Schaefer, F.V.; Miller, K.S.; K.Mol. Cell. Biol. 11, 5902-5909, 1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity A;Reference number: PT0222; MUID:91108337
A;Recession: PT0278
A;Molecule type: DNA
A;Residues: 1-5 < YAM>
A;Residues: 1-5 < YAM>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ig heavy chain CRD3 region (clone 4-88) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_c
C;Accession: PT0278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Proc. Natl. Acad. Sci. U.S.A. 81, 955-958, 1984 A;Title: Isolation and identification of enkephalins A;Reference number: A61445; MUID:84144823 A;Accession: A61445
A;Title: Rearrangement and junctional-site sequence analyses of T-cell receptor gamma A;Reference number: A41946; MUID:92049316
A;Accession: A41946
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, J. Exp. Med. 173, 395-407, 1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C:Species: Mytilus edulis (blue mussel)
C:Date: 07-Oct-1994 #sequence_revision 07-Oct-1994 #text_change 21-Jan-2000 C:Accession: A61445
                                                                                                                                                                                                                                                                                                                                                                                                                 A; Experimental source: B lymphocyte C; Keywords: heterotetramer; immunog
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A; Experimental source: pedal ganglia C; Keywords: neuropeptide; opioid peptide
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66.7%;
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Pred. No. 2.2e+05;
0; Mismatches 1
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Pred. No. 2.2e+05;
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                                                                         F.V.; Miller, K.S.; Klein,
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RESULT
A43001
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A; Recession: PQ0012
A; Molecule type: protein
A; Residues: 1-8 <FAN>
C; Superfamily: gastrin
C; Keywords: amidated carboxyl end; hormone; neuropeptide; sulfoprotein
C; Keywords: amidated carboxyl end; hormone; hyperfamily: gastrin
C; Keywords: amidated carboxyl end; hormone; neuropeptide; sulfoprotein
C; Keywords: amidated carboxyl end; hormone; hyperfamily: gastrin
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C; Keywords: amidated carboxyl end; hyperfamily: gastrin
C; Keywords: amidated carboxyl end; hyperfamily: gastrin
C; Keywords: amida
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G:Date: 07-Sep-1990 #sequence_revision 07-Sep-1990 #text_change 13-Sep-1996
G:Accession: P00012
R:Fan, Z.W.; Eng, J.; Shaw, G.; Yalow, R.S.
Peptides 9, 429-431, 1988
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A:Molecule type: protein
A:Residues: 1-7 <- WAD>
C:Superfamily: proenkephalin
C:Keywords: neuropeptide; opioid
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C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Species: 10-Oct.1992 #sequence_revision 21-Oct-1992 #text_change 02-Sep-2000
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N; Alternate names: CCK
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R;Madden IV, J.; Evans, C.J.; Tyler, A.N.; Esch, F.S.; Boehlen, P.; Makk, G.; Weber, J. Ncurochem. 56, 1914-1920, 1991
A;Title: Isolation and characterization of opioid peptides from rabbit cerebellum. A;Reference number: A60224; MUID:91225680
A;Accession: A60224
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Pred. No. 2.2e+05;
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Pred. No. 2.2e+05;
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                                                                                                     A; Molecule type: DNA
A; Residues: 1-8 <WHE>
C; Keywords: T-cell receptor
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A; Residues: 1-8 <WER>
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Query Match
Best Local Similarity
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Best Local .
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33.3%;
16.7%;
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RESULT 13
A38887
C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 07-May-1999
C;Accession: A38887
C;Accession: A38887
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        fibroblast growth factor receptor 1, secreted - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 07-May-1999
C;Accession: A42057
R;Werner, S.; Duan, D.S.R.; de Vries, C.; Peters, K.G.; Johnson, D.E.; Williams, L.T.
Mol. Cell. Biol. 12, 82-88, 1992
A;Title: Differential splicing in the extracellular region of fibroblast growth facto
A;Reference number: A42057; MUID:92107200
A;Accession: A42057
A;Status: preliminary
A;Status: preliminary
               R:Whetsell, M.; Mosley, R.L.; Whetsell, L.; Schaefer, F.V.; Miller, K.S.; Klein, J.R. Mol. Cell. Biol. 11, 5902-5909, 1991
Mol. Cell. Biol. 11, 5902-5909, 1991
A;Title: Rearrangement and junctional-site sequence analyses of T-cell receptor gamma A;Reference number: A41946; MUID:92049316
A;Accession: A38807
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N;Alternate names: CCK
C;Species: Macropus eugenii (tammar wallaby)
C;Date: 30-Oct-1992 #sequence_revision 30-Oct-1992 #text_change 13-Sep-1996
C;Accession: A43001; PQ0012
R;Fan, Z.W.; Eng, J.; Shaw, G.; Yalow, R.S.
Peptides 9, 429-431, 1988
A;Title: Cholecystokinin octapeptide purified from brains of Australian marsupials.
A;Reference number: PQ0012; MUID:88234141
A;Accession: A43001
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C;Keywords: amidated carboxyl end; hormone; neuropeptide; sulfoprotein
F;2/Binding site: sulfate (Tyr) (covalent) #status predicted
F;8/Modified site: amidated carboxyl end (Phe) #status predicted
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Score Pred.

12; No.

DB 2; 2.2e+05;

Length

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Biochem. Biophys. Res. Commun. 167, 273-279, 19
A;Title: A molluscan neuropeptide related to th
A;Reference number: A34626; MUID:90179762
A;Accession: A34626
A;Status: preliminary
A;Molecule type: protein
                                                                                                                                                                                                                                                                                                                                                                                                           J. Bacteriol. 172, 6834-6840, 1990
A;Title: In vitro analysis of polypeptide requirements of multicomponent phenol hydroxyl A;Reference number: A37832; MUID:91072231
A;Accession: A37832
A;Status: prellminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A.Status: preliminary
A;Molecule type: protein
A;Molecule type: protein
A;Residues: 1-3 <CIN>
C;Keywords: pyroglutamic acid
C;Keywords: pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     R;Cintra, A.C.O.; Vieira, C.A.; Giglio, J.R.
J. Protein Chem. 9, 221-227, 1990
A;Title: Primary structure and biological activity
A;Reference number: A37196; MUID:90351557
                                                                                                                    RPCH-related neuropeptide - ferruginous spindle
C;Specles: Fusinus ferrugineus (ferruginous spindle)
C;Date: 06-Jul-1990 #sequence_revision 06-Jul-1990 #
C;Accession: A34626
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A; Residues: 1-4 < POW>
C; Keywords: oxidoreductase
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C;Species: Bothrops insularis (island jararaca)
C;Date: 14-Feb-1992 #sequence_revision 01-Dec-1992 #text_change
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C; Keywords: neuropeptide
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T-cell receptor beta chain V-D-J region (121-1BV) - mouse (fragment) C;Species: Mus musculus (house mouse) C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-M C;Accession: PT0661
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A; Residues: 1-4 <HAR>
A; Cross-references: GB:S60737; NID:g233916; PIDN:AAB19518.1; PID:g233918
A; Note: sequence extracted from NCBI backbone (NCBIN:60737, NCBIP:60738)
C; Keywords: T-cell receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R; Harindranath, N.; Alexander, C.B.; Mage, R.G. Mol. Immunol. 28, 881-888, 1991
A; Title: Evolutionarily conserved organization A; Reference number: A53284; MUID:91342695
A; Accession: B53284
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B53284
T-cell receptor beta 2 chain D region, Dbeta2 - rabbit C;Species: Oryctolagus cuniculus (domestic rabbit) C;Species: O2-May-1994 #sequence_revision 18-Nov-1994 #te:
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A; Residues: 1-4 </AM>
A; Experimental source: B lymphocyte
C; Keywords: heterotetramer; immunoglobulin
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A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity A;Reference number: PT0222; MUID:91108337
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C;Date: 30-Sep-1993 #sequence_revision
C;Accession: PT0240
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                        #text_change 30-May-1997
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R; Feeney,
J. Exp. M
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A; Molecule type: protein
A; Residues: 1-5 <SHI>
C; Comment: This peptide corresponds to the five carboxyl-terminal rec; Superfamily: gastrin
C; Keywords: amidated carboxyl end; neuropeptide
F; 5/Modified site: amidated carboxyl end (Phe) #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cholocystokinin-5 - dog
N;Alternate names: CCK-5
C;Species: Canis lupus familiaris (dog)
C;Date: 18-Oct-1989 #sequence_revision 18-Oct-1989 #text_chan
C;Accession: A32516
R;Shively, J.; Reeve Jr., J.R.; Eysselein, V.E.; Ben-Avram, C
Am. J. Physiol. 252, G272-G275, 1987
A;Title: CCK-5: sequence analysis of a small cholecystokinin
A;Reference number: A32516; MUID:87153871
A;Paccession: A32516
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A:Molecule type: mnNA
A:Reslducs: 1-4 <FEE>
A:Experimental source: day 4 postnatal thymus,
C:Keywords: T-cell receptor
                                                                                                                                                                                    R:Struck, J.C.; Hartmann, R.K.; Toschka, H.Y.; Erd
Mol. Gen. Genet. 215, 478-482, 1989
A;Title: Transcription and processing of Bacillus
A;Reference number: I40469; MUID:89218958
A;Accession: I40469
                                                                                                                                                                                                                                                                dnazx-like protein - Bacillus subtilis (fragment)
C;Species: Bacillus subtilis
C;Datc: 12-Aug-1996 #sequence_revision 12-Aug-1996 #text_change
C;Accession: I40469
                                                                                      A; Start codon: GTG
                                                                                                      A; Molecule type: DNA
A; Residues: 1-5 < RES>
A; Cross-references: El
C; Genetics:
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A;TILLe: Junctional sequences of fetal T cell receptor beta chains A;Reforence number: PT0509; MUID:91277601
A;Accession: PT0661
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Best Local Similarity 100
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                                                                                                                     PIDN:CAA32902.1;
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                                                                                                                     PID:g4376204
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R;Cintra, A.C.O., 221-227, 1990
J. Protein Chem. 9, 221-227, 1990
A;Title: Primary structure and biological
                                                                                                                                                                                                             bradykinin-potentiating peptide 7 - island jararaca (;Species: Bothrops insularis (island jararaca) C;Date: 14-Feb-1992 #sequence_revision 01-Dec-1992 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G37196 C;Accession: G3
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G37196
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A; Experimental source: gut
C; Comment: This peptide increased basal tone of the circular muscle
and of the circular muscle of the gastro-intestinal junction.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JH0253
gut pentapeptide - Japanese eel
C;Species: Anguilla japonica (Japanese eel)
C;Date: 31-Mar-1992 #sequence_revision 31-Mar-1992 #text_change
C;Accession: JH0253
R;Uesaka, T; Ikeda, T; Kubota, I; Muneoka, Y; Ando, M.
Biochem. Biophys. Res. Commun. 180, 828-832, 1991
A;Title: Structure and function of a pentapeptide isolated from A;Reference number: JH0253; MUID:92062113
A;Accession: JH0253
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C;Species: Anthopleura elegantissina
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-19
C;Accession: A60803
R;Graff, D.; Grimmelikhuijzen, C.J.P.
Brain Res. 442, 354-358, 1988
B;Title: Isolation of <Glu-Ser-Lu-Arg-Trp-NH-2,
A;Reference number: A60803; MUID:88222764
A;Accession: A60803
A; Molecule type: A: Residues: 1-5
                                                          A;Reference number: A37196;
A;Accession: G37196
A;Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Molecule type: protein
A;Residues: 1-5 <GRA>
A;Residues: 1-6 sqrA>
C:Keywords: amidated carboxyl end; neuropeptide; pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;5/Modified site: amidated carboxyl end (Trp) #status experimental
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Ig heavy chain CRD3 region (clone 4-91C) - human (fragment)
C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Adte: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
C;Accession: PMO281
R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.
J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity and A;Reference number: PTO222; MUID:91108337
A;Accession: PTO281
A;Accession: PTO281
A;Residues: 1-5 < YAMA>
A;Experimental source: B lymphocyte
C;Keywords: heterotetramer; immunoglobulin
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Search completed: January 14, 2002, 07:44:22 Job time: 408 sec
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Maximum Match
Listing first
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Perfect score:
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   protein search, using sw model
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Match
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HTF2_TENMO
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ALL3_CHUMAN
ALL3_CHUMAN
ALL3_CHUMAN
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ALL4_CCTUPO
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WWA2_ACHFU
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WWA1_LEPDE
CCKN_MACEU
BPP_BOTIN
UF01_MOUSE
LOK1_LOCMI
HY7_PIG
ACI_TUAL
AKHG_GRYBI
AKH_LIBAU
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01-NOV-1995 (Rel. 32, Last annotation update)
01-NOV-1995 (Rel. 32, Last annotation update)
MYOTROPIC NEUROPEPTIDE 1 (LED-MNP-I).
Leptinotarsa decemlineata (Colorado potato beetle).
                                                 Eukaryota; Metazoa; Arthropoda; Trācheata; Hexapoda; Insec
Pterygota; Neoptera; Endopterygota; Coleoptera; Polyphaga;
Cucujiformia; Phytophaga; Chrysomeloidea; Chrysomelidae;
Chrysomelinae; Leptinotarsa.
                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE=Ganglion;
MMEDLINE-93265912; PubMed-8495720;
Minakata H., Ikeda T., Muneoka Y., Kobayashi M., Nomoto K.;
Minakata H., Izeda T., Muneoka Y., Kobayashi M., Nomoto K.;
"Wwamide-1, -2 and -3: novel neuromodulatory peptides isola:
ganglia of the African giant snail, Achatina fullca.";
FEBS Lett. 323:104-108(1993).
PIR; S33244; S33244: S33244: S33244; S33244; S33244;
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01-JUN-1994 (Rel. 29, Created)
01-JUN-1994 (Rel. 29, Last sequence up
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             SEQUENCE, AI
TISSUE=Head
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Eukaryota; Metazoa; Mollusca; Gastropoda; Pulmonata;
Achatinacea; Achatinidae; Achatina.
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MEDLINE=93265912; PubMed=8495720;
 MEDLINE=95380343;
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NCBI_TaxID=6530;
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 PubMed=7651886;
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7362D5B686D32310 CRC64;
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7362D5B69B132310 CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                            "Cholecystokinin octapeptide purified from brains marsupials.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Dasyurus viverrinus (Southeastern quoll).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Metatheria; Diprotodontia; Macropodidae; Macropus.
NCBI_TaxID=9315, 9279;
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PIR; PQ0012; PQ0012.
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50.0%;
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RESULT 8
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SEQUENCE.

TISSUE-Fibroblast;

MEDLINE-95009907; PubMed-7523108;

MEDLINE-95009907; PubMed-7523108;

METRICK B.A., Patterson R.M., Wichter L.L., He C., Selkir Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkir Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkir Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkir Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkir Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkir Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkir Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkir Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkir Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkir Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkir Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkir Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkir Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkir Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkir Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkir Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkir Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkir B.A., Patterson R.M., Wichter L.L., He C., Selkir B.A., Patterson R.M., Wichter L.L., He C., Selkir B.A., Patterson R.M., Wichter L.L., He C., Selkir B.A., Patterson R.M., Wichter L.L., He C., Selkir B.A., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.M., Patterson R.
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MEDLINE-90351557; PubMed-2386615;

Cintra A.C.O., Vieira C.A., Giglio J.R.;

Cintra A.C.O., Vieira C.A., Giglio J.R.;

Primary structure and biological activity of bradykinin pote peptides from Bothrops insularis snake venom.";

J. Protein Chem. 9:21-227(1990).

-i- FUNCTION: "HIS PEPTIDE BOTH INHIBITS THE ACTIVITY OF THE ANGIOTENSIN-CONVERTING ENZYME AND ENHANCES THE ACTION OF BRADYKININ BY INHIBITING THE KINASES THAT INACTIVATE IT. ACTS AS AN INDIRECT HYPOTENSIVE AGENT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-FEB-1994 (Rel. 28, Last annotation update)
BRADYKININ-POTENTIATING PEPTIDE S5,2 (5A) (ANGIOTENSIN-CONVERTING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         P38639,
01-OCT-1994 (Rel. 30, Created)
01-OCT-1994 (Rel. 30, Last sequence update)
01-FEB-1995 (Rel. 31, Last annotation update)
UNKNOWN PROTEIN FROM 2D-PAGE OF FIBROBLASTS (
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Mammalia; Eutheria; Rodentia;
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01-NOV-1995 (Rel. 3
01-NOV-1995 (Rel. 3
15-JUL-1998 (Rel. 3
15-JUL-1998 (Rel. 3
                                                                                                                                                       SEQUENCE, AND SYNTHESIS.

MEDLINE-81213980; PubMed-6263778;

Chang R.C.C., Huang W.-Y., Arimura A., Redding T.W., Coy
Saffran M., Kong A., Hamilton J.W., Cohn D.V., Schally A.

"Isolation, structure and synthesis of a heptapeptide wit
ACTH-releasing activity from porcine hypothalamus.";
Horm. Metab. Res. 13:228-232(1981).

PIR; A01417; NYPG7.

SEQUENCE 7 AA; 957 MW; 632B45B1FB5059A0 CRC64;
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P01153;
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MEDLINE-92262851; PubMed-1585017;
MEDLINE-92262861; PubMed-1585017;
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Locustakinin, a novel myotropic peptide from Locusta mig isolation, primary structure and synthesis."; Regul. Pept. 37:49-57(1992).
-i- FUNCTION: MYOTROPIC PEPTIDE. MAY BE IMPORTANT IN THE OF ION TRANSPORT AND INHIBITION OF DIURETIC ACTIVITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Locusta migratoria (Migratory locust).
Eukaryota; Metazoa; Arthropoda; Tracheeta; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Orthoptera; Caelifera;
Acridomorpha; Acridoidea; Acrididae; Locusta.
                                                                                                                                                                                                                                                                                                                21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
21-JUL-1986 (Rel. 01, Last annotation update)
HYPOTHALAMIC HEPTAPEPTIDE.
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MOD_RES
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                                                                                                                                                                                                                                        Gaede G., Hilbich C., Beyreuther K., Rinehart K.L. Jr.;
"Sequence analyses of two neuropeptides of the AKH/RPCH-family from the Lubber grasshopper, Romalea microptera.";
Peptides 9:681-688(1988).
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01-NOV-1990 (Rel. 16, Created)
01-NOV-1990 (Rel. 16, Last sequence update)
01-NOV-1990 (Rel. 16, Last annotation update)
01-NOV-1990 (Rel. 16, Last annotation update)
ANGIOTENSIN-CONVERTING ENZYME INHIBITOR.
Thunnus albacares (Yellowfin tuna) (Neothunnus macropterus).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Scombroidei;
                                                    -!- SIMILARITY: BELONGS TO
PIR; A28004; A28004
InterPro; IPR002047; AKH.
PROSITE; PS00256; AKH; 1.
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P1-JAN-1990 (Rel. 13, Created)
O1-FEB-1994 (Rel. 28, Last sequence update)
O1-FEB-1994 (Rel. 28, Last annotation update)
ADIPOKINETIC HORMONE G (AKH-G) (RO II)
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Biochem. Biophys. Res. Commun. 155:332-337(1988).
PIR: A31570; A31570. ... 6**a663733051F1B7 CRC64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SPECIES-G.bimaculatus; TISSUE-Corpora cardiaca; MEDLINE-88106553; PubMed-3426616; Gaede G., Rinehart K.L. Jr.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GRYBI
Neuropeptide;
MOD_RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Primary sequence analysis by fast atom bombardment mass spectrometry of a peptide with adipokinetic activity from the corpora cardiaca of the cricket Gryllus bimaculatus.";

piochem. Biophys. Res. Commun. 149:908-914(1987).
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Kohama Y., Matsumoto S., Oka H., Tera
"Isolation of angiotensin-converting
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                                                                                                                              FUNCTION: THIS HORMÓNE, RELEASED FROM CELLS IN THE CORPORA CARDIACA AFTER THE BEGINNING OF FLIGHT, CAUSES RELEASE OF DIGLYCERIDES FROM THE FAT BODY AND THEN STIMULATES THE FLIGHT MUSCLES TO USE THESE DIGLYCERIDES AS AN ENERGY SOURCE. SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
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Amidation; Flight.

1 PYRROLIDONE CARBOXYLIC ACID
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Pred. No.
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ting enzyme inhibitor from
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1e+05;
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AKH_LIBAU
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Best Local :
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Best Local Similarity
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P25423;
01-MAY-1992
                  01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last annotation update)
ADIPOKINETIC HORMONE (AKH).
Melolontha melolontha (Cockchafer),
Geotrupes stercorosus (Dor beetle), and
Pachnoda marginata (Flower beetle), and
Pachnoda marginata (Flower beetle).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Inse
Pterygota; Neoptera; Endopterygota; Coleoptera; Polyphaga
Scarabaelformia; Scarabaeldae; Melolonthinae; Melolontha.
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P25418;
01-MAY-1992 (Rel. 22; Created)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last annotation update)
ADIPOKINETIC HORMONE (AKH).
Libellula auripennis (Skimmer dragonfly).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
PCTTYGOTA; Palaeoptera; Odonata; Anisoptera; Libellulidae; Lil
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SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                dragonfly.";
Biol. Chem. Hoppe-Seyler 371:475-483(1990).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TISSUE=Corpora cardiaca; MEDLINE=90359055; PubMed=2390213;
         NCBI_TaxID=7061,
                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                concentrating hormone family isolated and sequenced from
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                                                                                                                                                                                                                                                                                                                                                                                                                 InterPro;
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rPro; IPR002047; AKH.
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llarity 100.0%;
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            7058;
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8665A771A9C452D6 CRC64;
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867861B5B9C452D6 CRC64;
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Pred. No.
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MOD_RES
MOD_RES
SEQUENCE 8 A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "A unique charged tyrosine-containing hormone/red-pigment-concentrating horm sequenced from two beetle species."; Biochem. J. 275:671-677(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SPECIES M. melolontha, and G.stercorosus; TISSUE Corpora MEDLINE 91248100; PubMed 2039445;
hypotrehalosemic activity isolated from the corpora cardiaca of he flies (Diptora).";

Proc. Natl. Acad. Sci. U.S.A. 86:8161-8164(1989).

-1- FUNCTION: THIS HORMONE, RELEASED FROM CELLS IN THE CORPORA CARDIACA AFTER THE BEGINING OF FLICHT, CAUSES RELEASE OF DIGLYCERIDES FROM THE FAT BOOY AND THEN STIMULAYES THE FLIGHT MUSCLES TO USE THESE DIGLYCERIDES AS AN ENERGY SOURCE.

-1- SINILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.

PIR: A33995. A33995.

InterPro: IPR002047; AKH.
                                                                                                                MEDLINE-90046758; PubMed-2813385;
Jaffe H., Raina A.K., Riley C.T., Fraser B.A., Nachma
Jafe H., Zhang Y.-S., Hayes D.K.;
Vogel V.W., Zhang Y.-S., Hayes D.K.;
"Primary structure of two neuropeptide hormones with
"primary structure of two neuropeptide hormones with
hypotrehalosemic activity isolated from the corpora c
                                                                                                                                                                                                                                           Tabanis atratus (Horse fly).
Tabanis atratus (Horse fly).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda;
Pterygota; Neoptera; Endopterygota; Diptera; Brachyce
                                                                                                                                                                                                                                                                                                    01-JAN 1990 (Rel. 13, Created)
01-FEB-1994 (Rel. 28, Last sequence up
01-FEB-1994 (Rel. 28, Last annotation
ADIPOKINETIC HORMONE (AKH) (DIPTERAN (
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Pterygota; Neoptera;
Tabanidae; Tabanus.
NCBI_TaxID=7207;
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PIR; S21663; S21663.
InterPro; IPR002047; AKH.
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ptide; Amidation; Flight.
pyrroLIDONE CARBOXYLIC
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illarity 100.
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Pred. No.
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1e+05;
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21-JUL-1986 (Rel. 01, Last seq
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -i- FUNCTION: MAY ACT AS A NUTROTANISMITTER
-i- SIMILARITY: BELONGS TO THE ALLATOSTATIN
Neuropeptide; Amidation; Multigene family.
MOD_RES
SEQUENCE 8 AA; 813 MW; 7C286B45AB476878
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Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyu
Eubrachyura; Portunoidea; Portunidae; Carcinus.
NCBI_TaxID=6759;
                                                                                                                                                        URINE GLYCOPEr...
Homo sapiens (Human).
Homo sapiens, Metazoa; Chordata; /
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Carcinus maenas (Common shore crab) (Green crab)
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glycopeptide containing cysteinyl-galactose.";
Biochem. J. 123:25P-25P(1971).
                                  MEDLINE=72062338; PubMed=5126885;
Lote C.J., Weiss J.B.;
Identification in unite of a low-molecular-weight
"Identification in united and allocations".
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     Gaede G., Rinehart K.L. Jr.;
Gaede G., Rinehart K.L. Jr.;
"Primary structures of hypertrehalosaemic neuropeptides isolated fron the corpora cardiaca of the cockroaches Leucophaea maderae, comphadorhina portentosa, Blattella germanica and Blatta orientalis and of the stick insect Extatosoma tiaratum assigned by tandem fast
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                                                                                                                                                                                                                                               "Isolation and primary structure of two peptides with cardioacceleratory and hyperglycemic activity from the cardiaca of Periplaneta americana."; Proc. Natl. Acad. Sci. U.S.A. 81:5575-5579(1984).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (PEA-CAH-I) (LED-CC-I) (HYPERTREHALOSAEMIC NEUROPEPTIDE I).
Periplaneta americana (American cockroach),
Leptinotarsa decemiinaata (Caracaha)
                                                                                                                                                                                   MEDLINE=90160053; Pub
Gaede G., Kellner R.;
                                                                                                                                                                                                             SPECIES=L.decemlineata;
                                                                                                                                                                                                                                                                                                    Scarborough R.M., Jamieson G.C., Miller C.A., Schooley D.A.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blattoidea; Blattidae; Periplaneta.
NCBI_TaxID=6978, 7539, 6976;
                                                                                         MEDLINE=90253659; PubMed=2340112;
                                                                                                    SPECIES=B.orientalis; TISSUE=Corpora
                                                                                                                    SEQUENCE
                                                                                                                                              Peptides
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                                                                                                                                                                                                                                                                                                                                                                                                                       Jr.;
                                                                                                                                                                                                                                                                                                                           PubMed=6591205;
                                                                                                                                                                                                 PubMed=2576128;
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fer M.H., O'Shea
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50.0%;
                                                                                                                                                         cockroach
                                                                                                                                                                                                          TISSUE=Corpora
371:345-354(1990)
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1e+05;
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Е.,
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Best Local :
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SPECIES-B.orientalis;
MEDLINE=90253659; Publ
Gaede G., Rinehart K.
                                                                                                                                                                                                                                                                                    Proc.
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SPECIES=P.americana;

SPECIES=9.046530; PubMed=6548628;

SPECIES PubMed=6548628;
                                                                                                              "The metabolic neuropeptides of the beetle and the American cockroach appeptides 10:1287-1289(1989).
                                                                                                                                                                                      MEDLINE=90160053;
Gaede G., Kellner
                                                                                                                                                                                                                                                                                                                        "Isolation and primary structure of two cardioacceleratory and hyperglycemic act cardiaca of Periplaneta americana.";
                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE=84298179; PubMed=6591205; Scarborough R.M., Jamieson G.C., Miller C.A., Schooley D.A.;
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HYPERTREHALOSAEMIC FACTOR II (NEUROPEPTIDE M-II) (PERIPLANETIN CC-2)
[PEA-CAH-II) (LED-CC-II) (HYPERTREHALOSAEMIC NEUROPEPTIDE II).
                                                                                                                                                                                                                                 SPECIES=L.decemlineata;
                                                                                                                                                                                                                                                              SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SPECIES=P.americana;
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NCBI_TaxID=6978, 7539, 6976;
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01-FEB-1994 (Rel. 28, Last sequence
01-FEB-1994 (Rel. 28, Last annotatio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Biochem. Biophys.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "Structures of two cockroach neuropeptides assigned bombardment mass spectrometry.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Witten J.L., Schaffer M.H., Rinehart K.L. Jr.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Periplaneta americana (American cockroach),
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PIR; S08995; S08995.
PIR; A49823; A49823.
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SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
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rPro; IPR002047; AKH.
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PubMed=2576128;
R.;
  PubMed=2340112;
t K.L. Jr.;
                                                                                                                                                                                                                                                                                                       Sci. U.S.A. 81:5575-5579(1984)
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                                             TISSUE=Corpora
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1e+05;
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MOD_RES
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P25419;
01-MAY-1992
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PROSITE; P
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PIR; B44960; B44960.
PIR; B49823; B49823.
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01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last sequence update)
11-FEB-1994 (Rel. 28, Last sequence update)
11-FEB-1994 (Rel. 28, Last sequence update)
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PIR; A05170; A05170.
PIR; S08996; S08996.
                                                                                                                                                                                                                                                                    PIR;
                                                                                                                                                                                                                                                                                                                                                           MEDLINE 90341081; PubMed-2381871; Gaede G., Rosinski G.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE.
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SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
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PS00256; AKH; 1.
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AMIDATION.
86745771A9D1A736 CRC64;
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DT 01-MAY-1991 (Rel. 18, Last sequence update)

LEUCOKININ II (L-II)

CE Pterygota; Metazoa; Arthropoda; Tracheata; Hexx
OC Pterygota; Metazoa; Arthropoda; Tracheata; Dictyopte.
D1aberoidea; Neberidae; Leucophaea

OX NCBL_TAXID=6988;
RN 19
SEQUENCE, AND SYNTHESIS.
RR HOlman G.M., Cook B.J., Nachman R.J.;
RR HOlman G.M., Cook B.J., Nachman R.J.;
RR HOlman G.M., Cook B.J., Nachman R.J.;
RR HOlman G.M., Cook B.J., Nachman R.J.;
RR HOlman G.M., Cook B.J., Nachman R.J.;
RR TISSUE-Head;
RT Gephalomyotropins.";
Cephalomyotropins.";
Cephalomyotropins.";
CC -i-FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE ST
CC ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).

CC ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).

FT MOD_RES
SEQUENCE 8 AA; 852 MW; DC6365A5B9C8676A CR
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P21140;
P1-MAY-1991 (Rel. 18, Created)
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O1-MAY-1991 (Rel. 18, Last annotation u
LEUCOKININ I (L-I).
Leucophaea maderae (Madeira cockroach).
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Pterygota; Neoptera; Orthopteroidea; Dictyoptera;
Blaberoidea; Blaberidae; Leucophaea.
                                                                                                                                                                       Holman G.M., Cook B.J., Nachman R.J.;

"Isolation, primary structure and synthesis of two neuropeptides from Leucophaea maderae: members of a new family of Cephalomyotropins.";

Comp. Biochem. Physiol. 84C:205-211(1986).

Comp. Biochem. Physiol. 84C:205-211(1986).

COMP. BIOCHEM. CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACTIIN ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).

-i- SIMILARITY: TO THE OTHER LEUCOKININS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Neuropeptide; Amidation.
MOD_RES 8 8
SEQUENCE 8 AA; 893 MW;
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Bla
Blaberoidea; Blaberidae; Leucophaea.
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-i- FUNCTION: THIS CEPHALOMYOTROPIC BYTIMULATES CONTRACTILE
-ACTIVITY OF COCKROACH PROTOBEUM (HINDGUT).

-i- SIMILARITY: TO THE OTHER LEUCOKININS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cephalomyotropins.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Holman G.M., Cook B.J., Nachman R.J.; "Isolation, primary structure and synthesis of two neuropeptides from Leucophaea maderae: members of a new family of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TISSUE-Head;
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llarity 100.0%;
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DC6365B449CDC76A
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ldea; Dictyoptera; Blattaria;
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LEUCOKININ IV (L-IV).
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Comp. Biochem. Physiol. 84C:271-276(1986).
-i- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACTILE ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).
-i- SIMILARITY: TO THE OTHER LEUCOKININS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LEUCOKININ III (L-III).
Leucophaea maderae (Madeira cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blaberoidea; Blaberidae; Leucophaea.
                                                                                                                 SEQUENCE
                                                                                                                                             Neuropeptide;
MOD_RES
                                                                                                                                                                                                                                                                                                                                                 Cephalomyotropins.";
                                                                                                                                                                                                                                                                                                                                                                             Holman G.M., Cook B.J., Nachman R.J.; "Primary structure and synthesis of two additional from Leucophaea maderae: members of a new family of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TISSUE=Head;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pterygota; Neoptera; Orti
Blaberoidea; Blaberidae;
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Eukaryota; Metazoa; Arthropoda; Trachea
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE,
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FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE ST
ACTIVITY OF COCKROACH PROTODEM (HINDGUT).
SIMILARITY: TO THE OTHER LEUCOKININS.
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                                                                                                          AMIDATION. DC6365B1E9D5BDDA CRC64;
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P19988;
PIR;
                  Holman G.M., Cook B.J., Nachman R.J.;

"Isolation, primary structure, and synthesis of leucokinins V and V myotropic peptides of Leucophaea maderae.";

Comp. Biochem. Physiol. 88C:227-30(1987).

-i- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACTILE ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).

-i- SIMILARITY: TO THE OTHER LEUCOKININS, AND TO MANDUCA SEXTA AND
                                                                                                                                                                                                             01-FEB-1991 (Rel. 17,
01-FEB-1994 (Rel. 28,
30-MAY-2000 (Rel. 39,
LEUCOKININ VI (L-VI)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Holman G.M., Cook B.J., Nachman R.J.;

"Isolation, primary structure, and synthesis of leucoki
myotropic peptides of Leucophaea maderae.";

Comp. Blochem. Physiol. 88C:27-30(1987).

-i FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES
ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).

-1 SIMILARITY: TO THE OTHER LEUCOKININS.

PIR: JS0315; JS0315.
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                                                                                                                                                                            Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
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01-FEB-1991 (Rel. 17, Last seq
30-MAY 2000 (Rel. 39, Last ann
LEUCOKININ V (L-V).
                                                                                                      MEDLINE=87052651; PubMed=2877794;
                                                                                                                    TISSUE=Head;
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                                                                                                                                                    NCBI_TaxID=6988;
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Blaberoidea; Blaberidae;
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Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
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Neuropeptide; Amidation.

PYRROLIDONE CARBOXYLIC ACID.

FT MOD_RES 8 8 AMIDATION.

SO SEQUENCE 8 AA; 935 MW; 90536591E995A5A6 CRC64;

Query Matches 1; Conservative 0; Mismatches 0; Indeis 0; Gaps 0;

Matches 1; Conservative 0; Mismatches 0; Indeis 0; Gaps 0;

The completed: January 14, 2002, 07:52:04

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MEDLINE=95331633; PubMed=7607556;
Altus M.S., Wood C.M., Stewart D.A., Rohenderson T., Owens G.A., Danner D.B.,
McClung J.K.;
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Gene 158:291-294(1995).
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
NCBI_TaxID=10116;
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PHOTOSYSTEM I REACTION CENTER SUBUNIT IV, PSI-E.
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Lagoutte B., Vallon O.;
"Purification and membrane topology of PSI-D and PS of the photosystem I reaction center.";
Eur. J. Biochem. 205:1175-1185(1992).
SEQUENCE 8 AA; 1082 MW; 2145BB1324069044 CRC64;
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Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;

Caryophyllidae; Caryophyllales; Chenopodiaceae; Spinacia.
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J. Biol. Chem. 255:11927-11941(1980).
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EMBL; V00694; CAA24066.1;
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Pharmacol. Toxicol. Endocrinol. 110:297-304(1995).
SEQUENCE 8 AA; 989 MW; 954772CAA87B0B59 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Fujita T., Minakata H., Nomoto K.;
"Isolation and characterization of four novel bioactive a polychaete annelid, Perinereis vancaurica.";
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                                                                                      Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                     SKELETAL MUSCLE-SPECIFIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Takahashi T., Furukawa Y., Muneoka Y., Matsushima
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Eukaryota; Metazoa; An
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STRAIN=129;
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                     SEQUENCE FROM N.A
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ER 8
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da; Nereididae; Perinereis.
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(TremBLrel. 02, Last sequence update)
(TremBLrel. 07, Last annotation update)
SCLE-SPECIFIC CALCIUM CHANNEL (FRAGMENT).
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                                                                                      Chordata; Craniata; Vertebrata; Euteleostomi; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             33.3%;
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                                                                                    Sciurognathi;
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Best Local S
Matches 1
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01-MAY-2000
01-MAY-2000
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ELECTRIN 1.
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01-MAY-2000
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J. Biol. C
SEQUENCE
Aust. J. Chem. 52:0-0(1999).
Amphibian skin; Amidation.
MOD_RES 6
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Submitted (JUN-1996) to the
EMBL; X98325; CAA66969.1; -.
                                                                                                                  TISSUE SKIN SECRETION;
Wabnitz P.A., Bowle J.H., Tyler M.J.,
"Peptides from the skin glands of the
Literi electrica. Comparison with the
                                                                                                                                                                                                                                                                                                                                                                                 Litoria rubella (Desert tree frog).
Eukaryota; Metazoa; Chordata; Crani
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WARDLINE-92202192; PubMed-1313009; Kanematsu T., Takeya H., Watanabe Y., (Nananga S., Hirata M.; "Putative inositol 1,4,5-trisphosphate"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=10118;
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01-MAY-2000 (TrEMBLrel. 13, Last sequence up
01-MAY-2000 (TrEMBLrel. 13, Last annotation
11-MAY-2000 (TREMBLRel. 13, Last annotation
11-MAY-2000 (TREMBLREL 13, Last annotation
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                                                                                             rubella.";
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A; 1047 MW; D72415BB06C37041
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01-JUN-1998 (TrEMBLrel. 08, Last
01-NOV-1998 (TrEMBLrel. 08, Last
HMG-1-LIKE PROTEIN (FRAGMENT).
SEQUENCE, AND MADE IN SECRETION;
TISSUE-SKIN SECRETION;
Steinborner S.T., Wabnitz P.A., Waugh R.J., --
Tyler M.J., Wallace J.C.;
"The structure of new peptides from the Australin red
"The structure of new peptide profile as a probe
'Litoria rubella'. The skin peptide profile as a probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P82065 PRELIMINARY;
P82065;
01-MAY-2000 (TrEMBLrel. 1
01-MAY-2000 (TrEMBLrel. 1
01-MAY-2000 (TrEMBLrel. 1
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Mahalingam R., Knap H.T.;
Submitted (FEB-1998) to the EI
EMBL; AF047050; AAC03556.1; -
NON_TER 1 1
SEQUENCE 7 AA; 850 MM; 6AI
                                                                                                                                                                                                                                                                                                                                                                        TRYPTOPHYLLIN 5.1.
Litoria rubella (Desert tree frog).
Eukaryota; Metazoa; Chordata; Craniata;
Amphibia; Batrachia; Anura; Neobatrachia
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Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheop Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; eurosids I; Fabales; Fabaceae; Papilionoideae; Glycine.
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"A plant DNA binding protein
"A plant bna binding proteins.";
with HMG-box proteins.";
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PubMed=1891369;
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4.7e+05;
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Willems H., Jaeger C., Baljer G
Whysical and genetic map of the
Coxiella burnetil.";
Submitted (MAY 1998) to the EMBI
EMBL; AF064963; AAD09947.1; -.
                                                                                                                    01-NOV-1996 (TrEMBLrel. 01, 01-NOV-1996 (TrEMBLrel. 01, 01-NOV-1996 (TrEMBLrel. 07, 01-AUG-1998 (TrEMBLrel. 07, 01-AUG-1998 (TrEMBLRENT).
               Coolbaugh M.I., Chinault C.A., Ba Caskey C.T.H.;
                                                                                  (CLONE XP15Hoo,
(CLONE XP15Hoo,
Homo sapiens (Human).
Homo sapiens (Human).
Horia; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                     085406;
01-NOV-1998 (TrEMBLrel. 08, Created)
01-NOV-1998 (TrEMBLrel. 08, Last sequence update)
01-NOV-1998 (TrEMBLrel. 08, Last sequence update)
01-NOV-1998 (TrEMBLrel. 08, Last annotation update
HYPOTHETICAL 1.0 KDA PROTEIN (FRAGMENT).
Coxiella burnetii.
Bacteria; Proteobacteria; gamma subdivision; Legic
coxiella group; Coxiella.
NCBI_TaxID=777;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Aust. J. Chem. 49:955-963(1996).

-!- FUNCTION: MAY ACT AS A NEUROMODULATOR OR NEUROTR
-!- TISSUE SPECIFICITY: SECRETED BY THE SKIN DORSAL.
-!- MASS SPECTROMETRY: MW-965; METHOD-FAB.
Amphibian skin; Amidation; Neuropeptide.
MOD_RES 7 7 7 AMIDATION.
SEQUENCE 7 AA; 983 MW; 7401E9D3676046B0 CRC64;
 EMBL';
                                                   TISSUE=PLACENTA;
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            Hum. Mol.
                                                             SEQUENCE FROM N.A.
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                             M., Bailey J.,
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Q15890;
01-NOV-1996 (TrEMBLrel. 01, CI
01-NOV-1996 (TrEMBLrel. 07, La
01-AUG-1998 (TrEMBLrel. 07, La
(CLONE XP19G12A) (FRAGMENT).
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HOMO sapiens (Human).
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TISSUE=PLACENTA;
Lee C.C., Yazdani A.,
                                                                                        Caskey
                                                                                                                                                                                                                   Eukaryota; Metazoa;
Mammalia; Eutheria;
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Hum. Mol. Genet. 0:0-0(0).
EMBL; L32083; AAA73880.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Lee C.C., Yazdani A., Wehnert M.,
Coolbaugh M.I., Chinault C.A., Bal
                                                                         Hum. Mol.
                                                                                                         Coolbaugh M.I., Chinault
                                                                                                                                                 TISSUE=PLACENTA;
                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE
                                                                                                                              Lee C.C.,
                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity
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                                                      L32078;
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                                                                                        C.T.H.;
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1; Conserv
                                                                         Genet.
                                                                                                                            Yazdani A.,
                                                                                                                                                                                                      s (Human).

Metazoa; Chordata; (
Metazoa; Primates; (
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larity 100.0%;
Conservative
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100.0%;
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                                                                                                           Wehnert M., Bailey J., Couch L., Xiong M.
ult C.A., Baldini A., Lindsay E.A., Zhao Z
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 34A415B0477B45BB CRC64;
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Pred. No.
                                                                                                                                                                                                                     Craniata; Ve Catarrhini;
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Catarrhini;
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Baldini A.,
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i; Hominidae;
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i; Hominidae;
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                                                                                                                                                                                                                                         Euteleostomi;
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da; Insecta; Blattaria;

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Q9VRD2
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Best Local Similarity
Trhes 2; Conserv
                                                                                                      Adams D., Ceniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Adams D., Celiker S.E., Holt R.A., Hoskins R.A., Galle R.F.,
RA George R.A., Lewis S.E., Holt R.A., White R.A., Galle R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Button G.G., Wortman J.R., Yandell M.D., Zhang O., Chen L.X.,
RA Man K.H., Doyle G., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
RA Abrill J.F., Agbayani A., An H.-J., Andrews-Pfannkoch C., Baldwin D.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley S.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Burtox D., Botchan M.R., Bouck J., Brokstein P., Brottler P.,
RA Gebroy J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA Gebroy J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA Gebroy J.M., Cawley S., Dahlke C.G., Ferriera S., Fletschmann W.,
RA Doublos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S. M.,
RA Durbin K.J., Evangelista C.G., Ferraz C., Ferriera S., Fletschmann W.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.
RA Harris N.L., Harvey D., Helman T.J., Wel H., Ibegyam C.,
RA Harris N.L., Harvey D., Helman T.J., Wel H., Ibegyam C.,
RA Hostlin D., Houston K.A., Mixon K., Nusskern D.R., Nelson D.,
RA Lasko P., Lei Y., Levitsky A.A., Li J., Liang Y., Lin X.,
RA Lasko P., Lei Y., Levitsky A.A., Li J., Liang Y., Lin X.,
RA Merkulov G., Milshina N.Y., Mobarry C., Worls J., Nelson D.,
RA Mennet E., Spradling A.C., Stapleton M., Strong R., Smith T.,
RA Palezzolo M., Pitman G.S., Pan S., Pollard J.R., Pacleb J.M.,
RA Shies B.C., Siden Hlamos I., Simpson M., Strong R., Smith T.,
RA Palezzolo M., Pitman G.S., Pan S., Pollard J.R., Pacleb J.M.,
RA Shue B.C., Siden Hlamos I., Simpson M., Strong R., Smith T.,
RA Pales R., Woodage T., Worley K.C., Wu D., Yang S., Yao O., A.,
RA Yalli M., Shong F., Zoreri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
RA Shies R., Tector C., Turner R., Venter E., Wang A. H., Wang X.,
Man
        Query Match
Best Local Similarity
Matches 1; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Drosophila melanogaster (Fruit fly).
Eukaryota; Mctazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Musc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-MAY-2000 (TrEMBLrel. 13, 01-MAY-2000 (TrEMBLrel. 13, 01-MAY-2000 (TrEMBLrel. 13,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ephydroidea; Dr
NCBI_TaxID:7227
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q9VRD2;
01-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE-20196006; PubMed-10731132;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
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           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               eoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Drosophilidae; Drosophila.
30.6%; Suc
100.0%; Pr
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      Score 11; DB; Pred. No. 4.7
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Last sequence update)
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Pred. No.
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4.7e+05;
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Best Local
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P82685;
01-MAR-2001 (TrEMBLrel. 16, C
01-MAR-2001 (TrEMBLrel. 16, I
01-MAR-2001 (TrEMBLrel. 16, I
KININ-1 (PEA-K-1).
      MOD_RES
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=98010462; PubMed=9350979;
Predel R., Kellner R., Rapus J., Penzlin H., Gaede G.;
"Isolation and structural elucidation of eight kinins from the
retrocerebral complex of the American cockroach, Periplaneta
                                                                                                                                                                       Predel R., Kellner R., Rapus J., Penzlin H., Gaede G.; "Isolation and structural elucidation of eight kinins from retrocerebral complex of the American cockroach, Periplane
                                                                                                                                                                                                                                                               TISSUE-CORPORA CARDIACA;
                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa; Arthropoda; Traci
Pterygota; Neoptera; Orthopteroidea;
Blattoidea; Blattidae; Periplaneta.
                                                                                                                                                                                                                                                                                                                                                                   Periplaneta americana (American cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     P82686;
01-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Periplaneta americana (American cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Bla
Blattoidea; Blattidae; Periplaneta.
                                                                Regul. Pept. 71:199-205(1997).
-1- FUNCTION: MEDIATES VISCERAL MUSCLE CONTRACTILE ACTIVITY
-1- SIMILARITY: BELONGS TO THE KININ FAMILY.
                                                                                                                                                     americana.";
                                                                                                                                                                                                                                             MEDLINE-98010462; PubMed-9350979;
                                                                                                                                                                                                                                                                                                                             NCBI_TaxID=6978;
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MOD_RES 8 8 8
SEQUENCE 8 AA; 950 MW
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-!- SIMILARITY: BELONGS TO THE KININ
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Regul. Pept. 71:199-205(1997)
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                                              Neuropeptide; Amidation.
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326365B449D5A774 CRC64;
    AMIDATION.
DC6365A5B9D5BDDA CRC64;
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Last annotation updat
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                                                    SEQUENCE, AND FUNCTION.
SEQUENCE, AND FUNCTION.
TISSUE-CORPORA CARDIACA;
MEDLINE-98010462; PubMed-9350979;
MEDLINE-98010462; PubMed-9350979;
Predel R., Kellner R., Rapus J., Penzlin H., Gaede G.;
"Isolation and structural elucidation of eight kinins from the "Isolation and structural elucidation of eight kinins from the "Isolation and structural elucidation of eight kinins from the "Isolation and structural elucidation of eight kinins from the "Isolation and structural elucidation of eight kinins from the "Isolation and structural elucidation of eight kinins from the "Isolation and structural elucidation of eight kinins from the "Isolation and structural elucidation of eight kinins from the "Isolation and structural elucidation of eight kinins from the "Isolation and structural elucidation of eight kinins from the "Isolation and structural elucidation of eight kinins from the "Isolation and structural elucidation of eight kinins from the "Isolation and structural elucidation of eight kinins from the "Isolation and structural elucidation of eight kinins from the "Isolation and structural elucidation of eight kinins from the "Isolation and structural elucidation of eight kinins from the "Isolation and structural elucidation of eight kinins from the "Isolation" is "Isolation" is
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01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
KININ-4 (PEA-K-4).
Periplaneta americana (American cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta; Pterygota; Neoptera; Orthopteroidaa; Dictyoptera; Blattoidae; Blattidae; Periplaneta.
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TISSUE=CORPORA CARDIACA;
MEDLINE=98010462; PubMed=9350979;
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01-MAR-2001 (TrEMBLrel. 16,
01-MAR-2001 (TrEMBLrel. 16,
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blattoidea; Blattidae; Periplaneta.
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Regul. Pept. 71:199-205(1997).
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    regul. Pept. 71:199-205(1997).
-!- FUNCTION: MEDIATES VISCERAL MUSCLE CONTRACTILE ACTIVITY
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SIMILARITY: BELONGS TO THE KININ FAMILY.
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01-JUL-1997
01-JUL-1997
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P82689;
01-MAR-2001
01-MAR-2001
01-MAR-2001
                                                                                                                                                                            01-JUL-1997 (TrEMBLrel. 04, Created)
01-JUL-1997 (TrEMBLrel. 04, Last sequence update)
01-MAY-1999 (TrEMBLrel. 10, Last annotation update)
PRO ALPHA 1 TYPE III COLLAGEN PROTEIN (FRAGMENT).
Oryctolagus cuniculus (Rabbit).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 relipianeta americana (American cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blatbaldea; Blattidae; Periplaneta.
NCBT maximiesoro.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-MAR-2001 (TrEMBLTel. 16,
01-MAR-2001 (TrEMBLTel. 16,
01-MAR-2001 (TrEMBLTel. 16,
KININ-5 (PEA-K-5)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      retrocerebral complex of the American cockroach, Periplanet; americana.; Regul. Pept. 71:199-205(1997).
-i- FUNCTION: MEDIATES VISCERAL MUSCLE CONTRACTILE ACTIVITY (MYOTROPIC ACTIVITY).
                                       SEQUENCE FROM N.A.
MEDLINE=96377339; PubMed=8783186;
Metsaranta M., Kujala U.M., Pelli
                                                                                                                                                       Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Neuropeptide; Amidation.
MOD_RES 8 8
SEQUENCE 8 AA; 865 MW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TESUBERCE, AND FUNCTION.
TISSUE-CORPORA CARDIACH
MEDLINE-98010462; PubMed-9350979;
Predel R., Kellner R., Rapus J., Penzl
"Isolation and structural elucidation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Neuropeptide; Amidation. MOD_RES 8 8
                                                                                                                                  NCBI_TaxID=9986;
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-!- SIMILARITY: BELONGS TO
                  Vuorio E.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -!- SIMILARITY: BELONGS TO THE KININ FAMILY.
Evidence for insufficient chondrocytic differentiation during repair
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity
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C76365B449CDC775 CRC64;
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736365A5B9D6DDD8
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                                            Pelliniemi L.,
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Best Local :
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                               TISSUE-LIVER;

ROC E.C., Burkhart W., Blackburn K., Moseley A., Spremut Roc E.C., Burkhart W., Blackburn K., Moseley A., Spremut Roc E.C., Burkhart W., Blackburn K., Moseley A., Spremut Roc E.C., Burkhart W., Blackburn K., Moseley A., Spremut Small Robosomal proteins present.";

Submitted (DEC-2000) to the SWISS-PROT data bank.

-I- SUBCELLULAR LOCATION: MITOCHONDRIAL.

Ribosomal protein; Mitochondrion.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Q9TRY3;
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Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pec
Bovidae; Bovinae; Bos.
NCBI_TaxID=9913;
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01-MAR-2001 (TrEMBLrel. 16, Last sequence of the control of
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01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAY-2000 (TrEMBLrel. 13, Last annotation update)
INSULIN-LIKE GROWTH FACTOR-BINDING PROTEIN-6, IGFBP-6.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID-9826;
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  SEQUENCE
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                                                                                                                                                                                                                                                                                                                                              Bos taurus (Bovine).
                                                                                                                                                                                                                                                                                                                                                                                                                                                        P82929;
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insulin-like growth
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LOCUSTA Migratoria (Migratory 10)
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Q95213;
01-FEB-1997
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GERMLINE DH
                                                   **McCracken A., Uhlenbusch I., Gellissen G.;
**Structure of the cloned Locusta migratoria mitochondrial restriction mapping and sequence of its ND-1 (URF-1) geneCurr. Genet. 11:625-630(1987).
**EMBL; X05286; CAA28905.1; -.
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NON_TER
SEQUENCE
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                Mitochondrion.
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Mol. Immunol. 0:0-0(0).
EMBL; U62585; AAB18735.1;
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Eukaryota; Metazoa; Chordata; Craniata; Ve
Mammalia; Eutheria; Lagomorpha; Leporidae;
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                                                                                                                                                                                                                 NCBI_TaxID=7004;
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Query Match Best Local

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Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system

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The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-2 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some simulations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
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                                                                                                                                                                                                                            Claim 49; Page 98; 121pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin -  \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac
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30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       and across the skin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2000-365610/31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Blaschuck OW,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11-MAY-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claudin-1 cell adhesion recognition sequence SEQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           to the desired target site. The present sequence has a cyclic
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99US-0282029
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86.1%;
62.5%;
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62.5%;
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Score 31; DB 21;
Pred. No. 4.3e+05;
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Pred. No.
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Best Local
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                       Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
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             graft rejection.
                                                          Claudin-1 cell adhesion recognition sequence SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 43; Page 97; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Blaschuck OW,
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                                                                                                                                   AAB06419 standard;
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99US-0282029
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62.5%;
                                                                                                                                   8 AA.
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Pred. No. 4.3e+05;
0; Mismatches 3
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys and across the skin \cdot
                                                        03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                               Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
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30-MAR-1999;
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         Blaschuck OW,
                                                                                            03-NOV-1999;
                                                                                                                   11-MAY-2000
                                                                                                                                                                Mammalia
                                                                                                                                                                                     graft rejection; cyclic.
                                                                                                                                                                                                                                  Claudin-1 cyclic cell adhesion recognition sequence SEQ ID NO: 110.
                                                                                                                                                                                                                                                           28-SEP-2000
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                                 (ADHE-) ADHEREX TECHNOLOGIES INC
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99US-0282029.
         Symonds JM,
                                                        98US-0185908
99US-0282029
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99WO-CA01029
                                                                                            99WO-CA01029
                                                                                                                                                                                                                                                                                                                                                                                                                          77.8%;
            Gour BJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gour BJ
                                                                                                                                                                                                                                                                                                                                                                                                               Score 28; DB 21;
Pred. No. 4.3e+05;
1; Mismatches 3
                                                                                                                                                                                                                                                                                                                                                                                                                                      Length
                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                 0
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WPI;

2000-365610/31

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RESULT
AAB06823
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Best Local
The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-7 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and ald wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                                                                                                                                                                                WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAR sequence; autoimmune graft rejection.
                                                                                                        Claim 76;
                                                                                                                                                  Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
                                                                                                                                                                                                                             Blaschuck OW,
                                                                                                                                                                                                                                                                                        03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                   03-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claudin-7
                                                                                                                                                                                                                                                          (ADHE-) ADHEREX TECHNOLOGIES INC
                                                                                                                                                                                                                                                                                                                                                                                             WO200026360-A1
                                                                                                                                                                                                                                                                                                                                                                                                                           Mammalia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claudin-7 modulating agent; cell adhesion recognition sequence;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAB06823;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAB06823 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 43; Page 97; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
                                                                                                                                                                                                                                                                                                                                                                11-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 wrxxsyxg 8
                                                                                                                                     across the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       opermiability, for delivering drugs to tumors and the nervous system across the {\bf skin} -
                                                                                                                                                                                                2000-365610/31
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                        Page 104; 121pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
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                                                                                                                                     skin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              adhesion recognition sequence SEQ ID NO:
                                                                                                                                                                                                                             Symonds
                                                                                                                                                                                                                                                                                      98US-0185908
99US-0282029
                                                                                                                                                                                                                                                                                                                                   99WO-CA01029
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   77.8%;
50.0%;
                                                                                                                                                                                                                             JM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    disease; inflammatory
                                                                                                        English.
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Pred. No. 4.3e+05;
1; Mismatches 3;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    disease;
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                                                                                                                                                  nervous system
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RESULT
AAB06876
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Best Local
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Best Local Similarity
                                                                                                                                                                    The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-7 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                   Claim
                                                                                                                                                                                                                                                                                                                                                                                  Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     graft
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAB06876 standard; peptide;
                                                                                                                                                         conformation.
                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2000-365610/31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Blaschuck OW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                03-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11-MAY-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claudin-7 modulating agent;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claudin-7 cyclic cell adhesion recognition sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAB06876;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            adhesion. In addition, they can also to the desired target site.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (ADHE-) ADHEREX TECHNOLOGIES INC
                                                  Local Similarity
\vdash
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                                                                                                                                                                                                                                                                                                                                                                     across the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sequence; autoimmune disease;
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wrxxsyxg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          wrxxsyxg
                                                                                                                                                                                                                                                                                                                                 79; Page 105; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       rejection; cyclic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4;
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                                  Conservative
                                                                                                                       AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        σ
                                                                                                                                                                                                                                                                                                                                                                     skin
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99US-0282029
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                                                  77.8%;
50.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 28; DB Pred. No. 4.3e

1; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gour BJ;
                                                Score 28; DB 21;
Pred. No. 4.3e+05;
                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        adhesion recognition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         inflammatory disease;
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4.3e+05;
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                                                                 Length
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                                  Indels
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                                  0;
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AAB06519
ID AABC
XX
AC AABO
XX
DT 28-S
XX
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AAB06917
                                                                                   RESULT 10
                                                                                                                      В
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                                                                                                                                                                                                                                Query Match
Best Local S
Matches 4
                                                                                                                                                                                                                                                    The present sequence is a peptide which can be used in a claudin-mediated cell adhesion modulator. The claudin group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and this peptide can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, it can also be used to facilitate drug delivery to the desired target site.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claudin-7 modulating agent; cell adhesion recognition sequence: CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection.
                                                                                                                                                                                                                                                                                                                                                                                        Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin - \,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claudin-7 cell adhesion recognition modulating sequence SEQ ID
            28-SEP-2000
                                   AAB06519;
                                                                                                                                                                                                                                                                                                                                                                 Claim 77; Page 104; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2000-365610/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Blaschuck OW,
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30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  03-NOV-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             05-OCT-2000 (first entry)
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                                                          AAB06519 standard;
                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (ADHE-) ADHEREX TECHNOLOGIES INC.
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                                                                                                                                                                     Local Similarity
nes 4; Conserv
                                                                                                                      1 wrxxsyxg 8
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                                                                                                                     wqmssyag
                                                                                                                                                                                                                                8 AA;
                                                                                                                                                                     Conservative
            (first entry)
                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Symonds JM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              98US-0185908.
99US-0282029.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /note- "C-terminal amide"
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                                                          peptide;
                                                                                                                                                                               77.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gour BJ
                                                                                                                                                                    Score 28; DB Pred. No. 4.3e
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                                                                                                                                                                               DB 21; Length 8;
4.3e+05;
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                                                                                                                                                                     Gaps
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AAB06572
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Best Local Similarity
Matches 4; Conserv
                                                                                                                           Claudin-2 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection; cyclic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-2 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claudin-2 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection.
                                                                                                                                                                               Claudin-2 cyclic cell adhesion recognition sequence
                                                                                                                                                                                                                                                           AAB06572 standard; peptide; 6 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 46; Page 97; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 and across the skin -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2000-365610/31.
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30-MAR-1999;
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03-NOV-1998;
                        03-NOV-1999;
                                                                            WO200026360-A1
                                                                                                     Mammalia
                                                                                                                                                                                                          28-SEP-2000
                                                                                                                                                                                                                                  AAB06572;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (ADHE-) ADHEREX TECHNOLOGIES INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       to the desired target site.
                                                  11-MAY-2000
                                                                                                                                                                                                                                                                                                                                          1 wrxxsy 6
                                                                                                                                                                                                                                                                                                                           1 wrtssy 6
                                                                                                                                                                                                                                                                                                                                                                            4;
                                                                                                                                                                                                                                                                                                                                                                                                                                              6 AA;
                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                         (first entry)
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99US-0282029
                         99WO-CA01029
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                                                                                                                                                                                                                                                                                                                                                                              0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                           Score 27; DB 21;
Pred. No. 4.3e+05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                      Length 6;
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ARESULT 12
ARB06520
ID AAB065
XX AAB065
XX AAB065
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XX Claudi
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XX CAR se
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XX WAMMMAL
PR 03-NOV
PR 03-NOV
PR 03-NOV
PR 03-NOV
PR 03-NOV
PR 03-NOV
PR 30-MAR
XX AALIBO
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Best Local
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                                                                               Antibody modulation of claudin-mediated cell adhesion vasopermiability, for delivering drugs to tumors and taked across the skin - {\bf a}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claudin-2 modulating agent; CAR sequence; autoimmune di
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30-MAR-1999;
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                                                                                                                                                                                 WPI; 2000-365610/31
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99US-0282029
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66.7%;
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Pred. No. 4.3e+05;
Pred. No. 4.3e+05;
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and the nervous sys
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                                       cell adhesion modulators. The claudin-2 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CAR sequence; autoimmune disease; inflammatory disease; graft rejection; cyclic.
                                                                                                                                                The present invention relates to the use of peptides as claudin-mediated
                                                                                                                                                                             Claim 49; Page 98; 121pp; English.
                                                                                                                                                                                                           vasopermiability, for and across the skin
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30-MAR-1999;
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to the desired target site.
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99US-0282029
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Query Match Best Local Similarity

75.0%; 66.7%;

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DB 21; 4.3e+05;

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RESULT 15
AAB06537
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                                                                                                                                                                                   The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-2 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases. Inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          graft rejection;
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                    AAB06537;
                                    AAB06537 standard;
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                                                                                                                                                                                                                                                                   Claim 49; Page 98; 121pp; English.
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30-MAR-1999;
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                                                                                                                                                                                                                                                   Query Match
Best Local
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30-MAR-1999;
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 03-NOV-1999;
                   11-MAY-2000
                                   WO200026360-A1
                                                      Mammalia
                                                                                                                         28-SEP-2000
                                                                                                                                           AAB06546;
                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                       conformation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Blaschuck OW,
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                                                                                                                                                                                                                                                  Local
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                                                                                                                                                                                                       2 wrtssy
                                                                                                                                                                                                                       1 wrxxsy 6
                                                                                                                                                                                                                                                                                                                                                                                                            across the
                                                                                                                                                                                                                                                                                                                                                                                                                                                2000-365610/31
                                                                                                                                                                                                                                          Similarity 4; Conserv
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                                                                                                                                                                                                        7
                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                     AA;
 99WO-CA01029
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The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-2 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
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Claudin-2 modulating agent; cell adhesion recognition such sequence; autoimmune disease; inflammatory disease; graft rejection; cyclic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin \cdot
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 49; Page 98; 121pp; English.
                                                                                                                  Claudin-2 cyclic cell adhesion recognition sequence SEQ ID
                                                                                                                                                                                                                                                                                          AAB06546 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (ADHE-) ADHEREX TECHNOLOGIES
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           98US-0185908
99US-0282029
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66.7%;
                                                            cell adhesion recognition sequence;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
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. 4.3e+05;
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                                                                                                                     NO: 135.
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RESULT 17
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                Claudin-2 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                       Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys-
                                                                                        Blaschuck OW,
                                                                                                                                          03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                03-NOV-1999;
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                                                                                                                                                                                                                                                            Mammalia.
                                                                                                                                                                                                                                                                                       graft
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                                                                                                                                                                                                                                                                                                                                                                                           AAB06555;
                                                                                                                                                                                                                                                                                                                                                                                                                    AAB06555 standard; peptide; 8 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 49; Page 98; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    vasopermiability, for delivering drugs to tumors and the nervous system and across the {\bf skin} -
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30-MAR-1999;
                                                                                                                (ADHE-) ADHEREX TECHNOLOGIES INC
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            across
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                                                                                                                                                                                                                                                                                      rejection;
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                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                      Symonds JM,
                                                                                                                                          98US-0185908.
99US-0282029.
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99US-0282029
                                                                                                                                                                                 99WO-CA01029
                                                                                                                                                                                                                                                                                      cyclic.
                                                                                                                                                                                                                                                                                                                                      cell adhesion recognition sequence SEQ ID NO:
              for delivering drugs to tumors and the nervous system in -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 75.0%;
66.7%;
                                                                                        Gour BJ
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Pred. No. 4.3e+05;
Pred. No. 4.3e+05;
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Best Local Similarity
                                        The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-2 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-2 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                                                                                                                                                                     Claim 49; Page 98; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CAR sequence; autoimmune disease; inflammatory disease; graft rejection; cyclic.
                              conformation.
                                                                                                                                                                                                                               Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system
                                                                                                                                                                                                                                                                                                             Blaschuck OW,
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30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claudin-2 cyclic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAB06564 standard; peptide;
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2 wrtssy 7
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99US-0282029
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66.7%;
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Pred. No. 4.3e+05;
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Sequence

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RESULT 20
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Best Local S
Matches 4
                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                            Matches
                                                                                                                                                                                                      The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases. Inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site.
  AAB06510;
                                                                                                                                                                                                                                                                                                                                    Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin - {\sf vasopermiss}
                      AAB06510 standard;
                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                            Claim 39; Page 96; 121pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claudin-1 cell adhesion recognition sequence SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2000-365610/31
                                                                                                                                                                                                                                                                                                                                                                                                         Blaschuck OW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                      03-NOV-1998;
30-MAR-1999;
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autoimmune disease;
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99US-0282029
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                       peptide;
                                                                                                                                      69.4%;
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66.7%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cell adhesion recognition sequence;
sease; inflammatory disease; cancer;
                       6
                                                                                                                           0;
                                                                                                                                     Score 25;
Pred. No.
                       ⋛
                                                                                                                           Mismatches
                                                                                                                       DB 21; Lc. 4.3e+05; 2;
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RESULT 2
AAB06425
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Best Local S
Matches 4
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                                                                                                                                                            graft rejection.
                                                                                                                                                                                                                                                                    Claudin-1 cell adhesion recognition sequence SEQ ID NO: 484.
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                                                 WO200026360-A1
                                                                                                                                                                                                                Claudin-1 modulating agent;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system
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30-MAR-1999;
                                                                                                        Mammalia
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claudin-1 cyclic cell adhesion recognition sequence SEQ ID NO: 517.
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les 4; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 wriysy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 wrxxsy 6
                                                                                                                                                                                      sequence; autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 across the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sequence;
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99US-0282029
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66.7%;
                                                                                                                                                                                      nt; cell adhesion recognition sequence;
disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 25; DB Pred. No. 4.3e 0; Mismatches
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4.3e+05;
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Best Local
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Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys and across the skin - \,
                                                                                                                        03-NOV-1998;
30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system
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30-MAR-1999;
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                                                                                                                                                                                                                                   Mammalia
                                                                                                                                                                                                                                                          graft rejection; cyclic.
                                                                                                                                                                                                                                                                                  Claudin-1 modulating agent; cell adhesion recognition sequence;
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                                                                                                 (ADHE-) ADHEREX TECHNOLOGIES INC
                                                                                                                                                                                                                                                                                                                                                                               AAB06511 standard; peptide;
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                                                                                                                                                                                                                                                                       sequence; autoimmune
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                                                                                                                        98US-0185908.
99US-0282029.
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99US-0282029
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66.7%;
                                                                         JM,
                                                                                                                                                                                                                                                                      disease; inflammatory
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4.3e+05;
2;
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AAB06483
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                                                                     The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claudin-1 cyclic cell adhesion recognition sequence SEQ ID NO: 490.
                                         adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                                                                                                                                                                      Claim 43; Page 96; 121pp; English.
                                                                                                                                                                                                                     and across the skin
                                                                                                                                                                                                                                      Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system
                                                                                                                                                                                                                                                                                    WPI; 2000-365610/31
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30-MAR-1999;
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99US-0282029.
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66.7%;
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Sequence

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                                                                                                                                                                                                     The present invention relates to the use of peptides as claudin-mediated coll adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
 AAB06495 standard;
                                                                                                                                                                      Sequence
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30-MAR-1999;
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peptide;
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66.7%;
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Pred. No. 4.3e+05;
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Pred. No. 4.3e+05;
Pred. No. 4.3e+05;
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Search completed: January 14, Job time: 428 sec
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30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection; cyclic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claudin-1 modulating agent; cell adhesion recognition sequence;
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                                                                                                                                                                                           conformation.
                                                                                                                                                                                                                                                                                                                                                                                                                                            (ADHE-) ADHEREX TECHNOLOGIES INC
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                                                                                                          Similarity 66.7
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99US-0282029
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                                                                                                                    69.4%;
66.7%;
          2002, 07:43:17
                                                                                                        Score 25; DB
Pred. No. 4.3e
0; Mismatches
                                                                                                          0,
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                                                                                                                     DB 21;
4.3e+05;
                                                                                                                               Length 8;
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Result
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Minimum DB seq length: Maximum DB seq length:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Total number of hits satisfying chosen parameters:
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Maximum Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                       derived
                                                                                                                                                                                                                                                                                                                                                                                                                               Issued_Patents_AA:*

1: /cgn2_6/ptcdata/2/1aa/5A_COMB.pep:*

2: /cgn2_6/ptcdata/2/1aa/5B_COMB.pep:*

3: /cgn2_6/ptcdata/2/1aa/6A_COMB.pep:*

4: /cgn2_6/ptcdata/2/1aa/6B_COMB.pep:*

5: /cgn2_6/ptcdata/2/1aa/BACMB.pep:*

6: /cgn2_6/ptcdata/2/1aa/backfiles1.pep:*
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1 wrxxsyxg 8
   January 14, 2002, 07:41:36; Search time 39.77 Seconds (without alignments) 4.527 Million cell updates/sec
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Copyright (c) 1993 - 2000 Comp
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Match 100%
first 50 summaries
    US-08-350-260A-464
US-09-196-934-15
US-08-335-733D-24
US-08-335-733D-25
US-08-335-733D-25
US-08-307-403A-8
US-09-326-718-6
PCT-US95-11405-2
US-09-127-574-17
US-08-687-219B-36
US-08-180-80-263
US-08-180-80-263
US-08-318-890B-3
US-08-340-208B-3
US-08-340-208B-3
US-08-340-208B-3
US-08-340-208B-3
US-08-687-219B-37
US-08-687-219B-37
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US-08-687-219B-37
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2, Appli
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34, Appl
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325, Appl
326, Appl
327, Appl
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280, Appli
6, Appli
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36, Appl
263, App
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23, Appl
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25, Appl
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Sequence 3, Appli	Sequence 2, Appli	Sequence 1, Appli	Sequence 25, Appl	Sequence 265, App		Sequence 40, Appl	Sequence 3, Appli	Sequence 28, Appl	Sequence 24, Appl	Sequence 108, App	٣.			Sequence 22, Appl		Sequence 11, Appl	Sequence 265, App	Sequence 7, Appli	Sequence 27, Appl	Sequence 27, Appl	Sequence 27, Appl	Sequence 17, Appl

ALIGNMENTS

US-08-350-260A-464 COMPUTER READABLE FORM:

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/350,260A
FILING DATE: 05-DEC-1994
CLASSIFICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: GB 9110549.4
FILING DATE: 15-MAY-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9206318.9 Sequence 464, Appl Patent No. 5962255 APPLICATION NUMBER: GB 920
FILING DATE: 24-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION UMBER: PCT/GB
FILING DATE: 10-JUL-1991
PRIOR APPLICATION UMBER: PCT/GB
APPLICATION NUMBER: PCT/GB
FILING DATE: 15-MAY-1992
PRIOR APPLICATION DATA: GENERAL INFORMATION: APPLICANT: Smith, Andrew John Hammond TITLE OF INVENTION: Methods for producing members of specific TITLE OF INVENTION: binding pairs NUMBER OF SEQUENCES: 602 CORRESPONDENCE ADDRESS: APPLICANT: APPLICANT: STREET: Marshall
STREET: 6300 Sea.
CITY: Chicago
STATE: Illinois
COUNTRY: USA ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun 6300 Sears Tower, 233 South Wacker Drive E: David W. Clough Marshall, O'Toole, Application US/08350260A Waterhouse, Peter Nissim, Ahuva Griffiths, Andrew David Williams, Samuel Cameron Johnson, Kevin Stuart Winter, umber: PCT/GB91/01134 10-JUL-1991 Gregory PCT/GB92/00883 GB 9206318.9 Andrew David #1.25 (EPO)

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/GB93/00605 FILING DATE: 24-MAR-1993

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RESULT 3
US-08-335-733D-23
; Sequence 23, Application US/08335733D
; Patent No. 6042831
; GENERAL INFORMATION:
; APPLICANT: Beretta, Alberto
; TITLE OF INVENTION: IMMUNOLOGICALLY HOMOL
; TITLE OF INVENTION: IMMUNOLOGICALLY HOMOL
                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                                          , OTHER INFORMATION: Description of Artificial Sequence: Synthetic us-09-196-934-16
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Best Local Similarity
Thes 3; Conserve
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                                                                                                                                                                                                                                           Matches
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: PatentIn Ver. 2.0 SEQ ID NO 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 16, Application US/09196934
Patent No. 6191256
                                                                                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION NUMBER: US/09/196,934
CURRENT FILING DATE: 1998-11-20
NUMBER OF SEQ ID NOS: 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Chen, Li Ang
APPLICANT: Beuttner, Joseph A.
APPLICANT: Carbonell, Ruben G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: Recombinant Factor VIII Binding Peptides FILE REFERENCE: MSB-7251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEPHONE: 312-474-6300
INFORMATION FOR SEQ ID NO: 464:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                            FEATURE:
                                                                                                                                                                                                                                                                                                                                                                          ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 16-SEP-1994
ATTORNEY/AGENT INFORMATION:
NAME: Clough, David W
REGISTRATION NUMBER: 36,1
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: 0
FILING DATE: 31-MAR-
PRIOR APPLICATION DATA:
NUMBER OF SEQUENCES:
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16-SEP-1994
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             IMMUNOLOGICALLY HOMOLOGOUS TO HLA
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Pred. No. 1.6e+05;
0; Mismatches 3;
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Pred. No. 1.6e+05;
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                                                                                                                                                                                                                                                                          Length 6;
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US-08-335-733D-24

; Sequence 24, Application US/08335733D
; Patent No. 6042831
; GENERAL INFORMATION:
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Best Local Similarity
"head 3; Conserve
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SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: P
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: 1
ORIGINAL SOURCE:
             OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
                                                                  ZIP: 10112-0228
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
                                                                                                                                                                                                                APPLICANT: Beretta, TITLE OF INVENTION: TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY: U.S.A.
ZIP: 10112-0228
COMPUTER READABLE FORM:
                                                                                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: Baker & E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REGISTRATION NUMBER: 35,263
REFERENCE/DOCKET NUMBER: A2
TELECOMMUNICATION INFORMATION:
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PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
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CITY: New York
PRATE: NY
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                                                                                                                           STATE: NY
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APPLICATION NUMBER:
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                                                    IBM Compatible
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50.0%;
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HIV PROTEIN EPITOPES
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US/08/335,733D
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Pred. No. 1.6
0; Mismatches
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US-08-335-733D-25
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           Sequence 25, Application US/08335733D Patent No. 6042831 GENERAL INFORMATION:
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Best Local
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HYPOTHETICAL: NO ANTI-SENSE: NO FRAGMENT TYPE: 1: ORIGINAL SOURCE:
                                                                                                                                                     SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/335,733D
FILING DATE: 10.NOV-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatil
                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES: 90
CORRESPONDENCE ADDRESS:
ADDRESSEE: Baker & Botts, L.L.P.
STREET: 30 Rockefeller Plaza
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: peptide HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE/DOCKET NUMBER: A2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-408-2500
TELEPHAX: 212-765-2519
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE:
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                         OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                     COUNTRY: U.S.A. ZIP: 10112-0228
                                                                                                                                                                                                                                                                                                                                  STREET: 30 Rock
CITY: New York
STATE: NY
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nes 3; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: MacLeod, Janet M
REGISTRATION NUMBER: 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRANDEDNESS:
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                                                                                                                                                                                                                                                        IBM Compatible
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IMMUNOLOGICALLY HOMOLOGOUS TO HLA
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25:
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Pred. No. 1.6e+05;
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; ORIGINAL SOURCE:
US-08-335-733D-25
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Best Local Similarity
Thes 3; Conserve
; ANTI-SENSE: US-08-907-403A-8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 8, Application US/08907403A Patent No. 6013633
                                                                                                                                                                                                                                                      CURRENT APPLICATION DATA:

APPLICATION NUMBER: U5/08/907,403A
FILING DATE: 07-AUG-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/023,588
FILING DATE: 09-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: Albainy-Jenei, Stephen R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
APPLICANT: Balasubramanium, An
APPLICANT: Chance, William T.
                                                                                                                                                    TELEFAX: (513) 421-7269 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY: USA
ZIP: 45202-2917
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 I
MEDIUM TYPE: 1.44 MB storage
                                                                                                                                                                                REFERENCE/DOCKET NUMBER: UO TELECOMMUNICATION INFORMATION: TELEPHONE: (513) 241-2324
                                                                                                                SEQUENCE CHARACTERISTICS:
LENGTH: 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: peptide HYPOTHETICAL: NO ANTI-SENSE: NO
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LENGTH: 8 amino acids
                                            MOLECULE TYPE:
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TITLE OF INVENTION:
                              HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                      NAME: Albainy-Jenei, Stephen R. REGISTRATION NUMBER: 41,487
                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM Compatible OPERATING SYSTEM: Windows
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STREET: 441 Vine
CITY: Cincinnati
                                                                  TOPOLOGY:
                                                                                  STRANDEDNESS:
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                no
                                                                                                                                                                                                                                                                                                                                                                                                                Microsoft Word
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                                no
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                                            peptide
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Of Appetite, Blood Pressure, Cardiovascular
Response, Libido, And Circadian Rhythm
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Pred. No. 1.6e+05;
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Query Match

52.8%;

Score 19;

DB 3;

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*Query Match
Best Local Similarity
"~+~hes 3; Conserva
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Best Local Similarity
Thes 3; Conserve
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                                                                                                     ; OTHER INFORMATION: synthetic construct US-09-326-718-6
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; ORGANISM: Arabidopsis sp.
US-09-177-249-280
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                                                                                                                                                                                       SEQ ID NO 6
LENGTH: 7
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Matches 3; Conserva
                                                                                                                                                                                                                                                                                           APPLICANT: Ruoslahti, Erkki
APPLICANT: MacKenna, Deidre A.
TITLE OF INVENTION: Heart Homing Peptides and Methods of
TITLE OF INVENTION: Using Same
FILE REFERENCE: P-LJ 3512
                                                                                                                                                                                                                        CURRENT APPLICATION NUMBER: US/09/326,718
CURRENT FILING DATE: 199-06-07
NUMBER OF SEO ID NOS: 15
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EARLIER APPLICATION NUMBER: US 09/071,838
EARLIER FILING DATE: 1998-05-01
NUMBER OF SEQ ID NOS: 324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Goldberg, Robert B.
APPLICANT: The Regents of the University of California TITLE OF INVENTION: Nucleic Acids That Control Seed and Fruit TITLE OF INVENTION: Development in Plants FILE REFERENCE: 023070-086120US
CURRENT APPLICATION NUMBER: US/09/177,249
CURRENT FILING DATE: 1998-10-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Ohad, Nir
APPLICANT: Kiyosue, Tomohiro
APPLICANT: Yadegari, Ramin
APPLICANT: Margossian, Linda
APPLICANT: Harada, John
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Fischer, Robert L.
                                                                                                                                                ORGANISM: Artificial Sequence
                                                                                                                                       FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH:
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              Score 19; DB 4; Le
Pred. No. 1.6e+05;
Pred. No. 3;
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Pred. No. 1.6e+0
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0; Mismatches 3;
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; Sequence 17, Application US/09127574
; Patent No. 5985836
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; Sequence 2, Application PC/TUS9511405
; GENERAL INFORMATION:
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Best Local Similarity
 SEQ ID NO 17
                CURRENT APPLICATION NUMBER: US/09/127,574
CURRENT FILING DATE: 1998-07-31
NUMBER OF SEQ ID NOS: 62
SOFTWARE: PatentIn Ver. 2.0
                                                                                APPLICANT: Baumbach, George A.
APPLICANT: Carbonell, Ruben G.
TITLE OF INVENTION: Alpha-1 Proteinase Inhibitor Binding Peptides
FILE REFERENCE: MSB-7248
                                                                                                                                                      APPLICANT: Bastek, APPLICANT: Lang, Jo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: PatentIn Releaction CURRENT APPLICATION DATA:
APPLICATION AUMBER: PCT/
FILING DATE: 18-SEP-1995
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: SAXE, Bernhard D. REGISTRATION NUMBER: 28,665 REFERENCE/DOCKET NUMBER: 18 TELECOMMUNICATION INFORMATION: TELEPHONE: (202)672-5300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US 08/308,103 FILING DATE: 16-SEP-1994 ATTORNEY/AGENT INFORMATION: NAME: SAXE, Bernhard D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: 1-16
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COUNTRY: US
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRANDEDNESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
PatentIn Release #1.0, Version #1.30
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60.0%;
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Pred. No. 1
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RESULT 12
US-08-190-802A-263
; Sequence 263, Application US/08190802A
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US-09-127-574-17
                                                                                  В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 11
US-08-687-2198-36
                                                                                                                                                                                                                          MOLECULE TYPE: peptide FRAGMENT TYPE: N-terminal or C-terminal or internal US-08-687-2198-36
                                                                                                                                                Matches
                                                                                                                                                               Ouery Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Patent No. 5985541
GENERAL INFORMATION:
APPLICANT: JOLIVE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 36, Application US/08687219B Patent No. 5985541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION DATA:
APPLICATION NUMBER: FR 95 09005
FILING DATE: 25-JUL-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: 25-JUL-1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                    TELEPHONE: 703 836-6400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION: PEPTIDE CAPABLE OF BEING RECOGNIZED BY
TITLE OF INVENTION: ANTIBODIES RECOGNIZING THE C33 ANTIGEN OF HEPATITIS C VIRUS
                                                                                                                                                                                                                                                                                                                                                ELECURATE 703 F
                                                                                                                                             Local Similarity
nes 3; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                   REGISTRATION NUMBER: 30,024
REFERENCE/DOCKET NUMBER: WPB 38526
                                                                                                                                                                                                                                                                      TYPE: amino acid
TOPOLOGY: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Berridge, William P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US/08/687,219B FILING DATE: 25-JUL-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CITY: Alexandria
STATE: VA
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                                                                                                                                                                                                                                                                                                     8 amino acids
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700 South Washington Street
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                                                                                                                                              Conservative
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Pred. No. 1.6e
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Pred. No. 1.6e+05;
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1.6e+05;
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US-08-477-346-263
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                                                                                                                                                                                                                                             Patent No. 6262023 GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
APPLICANT: Mochly-Rosen, Daria
APPLICANT: Ron, Dorit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: (415) 324-0960 INFORMATION FOR SEQ ID NO:
                                                                                                                                                            APPLICANT: Mochly-Rosei
APPLICANT: Ron, Dorit
TITLE OF INVENTION: WITH
TITLE OF INVENTION: The
NUMBER OF SEQUENCES: 24
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC DOSYMS-DOS
COUNTRY: USA
ZIP: 20006-1812
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: peptide
HYPOTHETICAL: YES
ANTI-SENSE: NO
ORIGINAL SOURCE: WRTAA peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/08/190,802A FILING DATE: 01-FEB-1994 CLASSIFICATION: 530 ATTORNEY/AGENT INFORMATION: NAME: Fabian, Gary R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE/DOCKET NUMBER: 86
TELECOMMUNICATION INFORMATION:
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                                                                                         STREET: 2000 rem
CITY: Washington
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STRANDEDNESS: Si
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY:
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                                                                                                              2000 Pennsylvania Avenue,
                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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40.08;
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Pred. No.
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CURRENT APPLICATION DATA:

07-JUN-1995

US/08/477,346

SOFTWARE:

PatentIn

OPERATING SYSTEM:

PC-DOS/MS-DOS

Release #1.0, Version #1.25

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US-08-338-890B-2
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INFORMATION FOR SEQ ID NO:
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             TELECOMMUNICATION INFORMATION: TELEPHONE: (215)568-3100
TELEFAX: (215)568-3439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HYPOTHETICAL: YANTI-SENSE: NO ORIGINAL SOURCE:
                                                                                                                                                                                 SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*) CURRENT APPLICATION DATA:
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LENGTH: 5 amino acids
TYPE: amino acid
STRANDEDNESS: single
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                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Hirschmann, APPLICANT: Spanevello, APPLICANT: Nutt, Ruth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REGISTRATION NUMBER: 29,959
REFERENCE/COKET NUMBER: 25:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500
                                                                                                                ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: peptide HYPOTHETICAL: YES
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                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION:
                                                                                                                                                                                                           COMPUTER: IBM PC
OPERATING SYSTEM:
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                                                                               NAME: Malinoski, Ly
REGISTRATION NUMBER:
                                                                                                                                   CLASSIFICATION:
                                                                                                                                             APPLICATION NUMBER: US/08/338,890B
FILING DATE: NOV. 14, 1994
                                                                                                                                                                                                                                                                                   COUNTRY: UZIP: 19103
                                                                                                                                                                                                                                                                                                                             STREET: One Liberty CITY: Philadelphia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: MURASHIGE, KATE H. REGISTRATION NUMBER: 29,
                                                                 REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                 MEDIUM TYPE:
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2; Conserv
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IBM PC compatible
SYSTEM: MS-DOS/WINDOWS
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Pred. No. 1.
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1.6e+05;
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US-08-338-890B-3
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Patent No. 5700905
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                                                                                                                                                                                                                                                                    INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
NAME: Malinoski, Lynn
REGISTRATION NUMBER: 38,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Hirschmann, Ralph
APPLICANT: Spanevello, Roland
APPLICANT: Nutt, Ruth
                                    FEATURE:
                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
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LENGTH: 6 amino acids
                                                                   LOCATION: 1-3
OTHER INFORMATION:
OTHER INFORMATION:
OTHER INFORMATION:
                                                                                                                                                             FEATURE:
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                                                                                                                                                                            MOLECULE TYPE: peptide
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FILING DATE: NOV. 14, 1994
CLASSIFICATION: 530
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OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*)
                                                   OTHER INFORMATION:
                                                                                                                                                                                              TYPE: amino acid TOPOLOGY: linear
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                  NAME/KEY:
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One Liberty Place, 46th Floor
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Modified-site 6, Xaa at Line 100
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50.0%;
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/notes-"an amine protecting group or a solid support can be present or absent on the primary amino group", Xaa=Orn
                                                                 /label=protecting1
/note="an amine protecting group or a solid support can be present or absent on the primary
                                                   amino group", Xaa: ≃Orn
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1;
1.6e+05;
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                                                                                                                                                  NAME/KEY: Modified-site

LOCATION: 2-3, Xaa at Line 72
LOCATION: 2-3, Xaa at Line 72
OTHER INFORMATION: /label-protecting1
OTHER INFORMATION: /notes-"an amine protecting group or a solid
OTHER INFORMATION: support can be present or absent on the primary
OTHER INFORMATION: amino group", Xaa=Orn
US-08-340-208B-2
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Best Local (
                                                                 Matches
                                                                                                  Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WINDOWS
SOFTWARE: WORDPERFECT SAVED AS ASCII (DOS) TEXT(*.*)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
LENGTH: 6 amino acids
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MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                           TELEPHONE: (215)568-3100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATTORNEY/AGENT INFORMATION:
NAME: Malinoski, Lynn
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CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Hirschmann, Ralph
APPLICANT: Spanevello, Rolando
TITLE OF INVENTION: Somatostatin Mimics And Synthetic
TITLE OF INVENTION: Methods Therefor
                                                                                                                                                                                                                                                                                       MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OTHER INFORMATION:
OTHER INFORMATION:
OTHER INFORMATION:
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STATE: PA
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les 3; Conserv
                                                                 Local Similarity
les 3; Conserv
                                                                                                                                                                                                                                                                                                         TOPOLOGY: circular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US FILING DATE: NOV. 16,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY:
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                                wrxxsy 6
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One Liberty Place, 46th Floor
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                                                                 Conservative
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50.0%;
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/noteo "a carboxyl protecting group can be
present or absent on the hydroxyl group", Xaa=Orn
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6, 1994
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                                                              Score 17; D
Pred. No. 1.
1; Mismatche
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Pred. No. 1.6e+05;
1; Mismatches 2
                                                                 Mismatches
                                                                                                DB 2;
                                                                                .6e+05;
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US-08-340-208B-3
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                                                             Sequence 2, Application US/08997263 Patent No. 6001960 GENERAL INFORMATION:
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                                                                                                                                                                                                                                                           Best Local Similarity
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INFORMATION FOR SEQ ID NO: 3:
APPLICANT:
APPLICANT:
APPLICANT:
TITLE OF INV
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APPLICANT: Spanevell
TITLE OF INVENTION:
TITLE OF INVENTION:
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ATTORNEY/AGENT INFORMATION:
NAME: Malinoski, Lynn
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: peptide FEATURE:
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LOCATION: 3, Xaa at Line 100
OTHER INFORMATION: /label=prc
OTHER INFORMATION: /note= "a
OTHER INFORMATION: present o:
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WIK
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OTHER INFORMATION:
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FILING DATE: NOV. 16, 1994
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 T: Nutt, Ruth INVENTION: S
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                            Hirschmann,
Spanevello,
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 Synthetic Somatostatin Mimics
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          /note="an amine protecting group or
support can be present or absent on
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                              Rolando
                                               Ralph
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                                                                                                                                                                                                                                                             Score 17; DB 2;
Pred. No. 1.6e+05;
                                                                                                                                                                                                                                               Mismatches
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                                                                                                                                                                                                                                                          GENERAL INFORMATION:
APPLICANT: Hirsch
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (215)568-3100
TELEFAX: (215)568-3439
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatil
OPERATING SYSTEM: MS-DOS
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                                                                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock,
                                                                                                                                                                                         APPLICANT: Spanevello, Rolando
APPLICANT: Nutt, Ruth
TITLE OF INVENTION: Synthetic Somatostatin Mimics
NUMBER OF SEQUENCES: 5
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APPLICATION NUMBER: US 08
FILING DATE: NOV. 14, 199
ATTORNEY/AGENT INFORMATION:
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LOCATION: 2-3, Xaa at Line 72
OTHER INFORMATION: /label=prot
OTHER INFORMATION: /notes-"an
OTHER INFORMATION: support car
OTHER INFORMATION: amino group
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CITY: Philadelphia
                                                                    COUNTRY: UZIP: 19103
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WINDOWS
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ZIP: 19103
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 MS-DOS/WINDOWS
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50.0%;
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/notes-"an amine protecting group or a solid support can be present or absent on the primary amino group", Xaa=Orn
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                                                                                                                                         Washburn, Kurtz, Mackiewicz and
Place, 46th Floor
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 17; DB 3;
Pred. No. 1.6e+05;
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Matches
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GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: (215)568-343
                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy (
COMPUTER: PC compatily operating SYSTEM: PC
             OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/687,219B
FILING DATE: 25-JUL-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: FR 95 09005
                                                                                                                                                                                                                                                                                                                                                         APPLICANT: JOLIVET-
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REGISTRATION NUMBER: 38,788
REFERENCE/DOCKET NUMBER: UP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215,568-3100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US 0. FILING DATE: NOV. 14, 19
ATTORNEY AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION DATA: APPLICATION NUMBER: US
                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURE:
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                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY:
LOCATION:
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OTHER INFORMATION:
OTHER INFORMATION:
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OTHER INFORMATION: /label=protecting2
OTHER INFORMATION: /note= "a carboxyl protecting group can be
OTHER INFORMATION: present or absent on the hydroxyl group", Xaa=Orn
                                                                                                                                                                                                                        COUNTRY:
                                                                                                                                                                                                                                            STATE:
                                                                                                                                                                                                                                                                 CITY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: amino acid TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION:
                                                                                                                                                                                                          ZIP:
                                                                                                                                                                                                                                                                               ADDRESSEE: OLIFF & BERRIDGE, STREET: 700 South Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE:
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VENTION: PEPTIDE CAPABLE OF BEING RECOGNIZED BY
VENTION: ANTIBODIES RECOGNIZING THE C33 ANTIGEN
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PC compatible
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25-JUL-1995
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50.0%;
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/note="an amine protecting group or a solid
support can be present or absent on the primary
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1, 1994
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Pred. No. 1.6e+05;
1; Mismatches 2;
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Query Match
Best Local Similarity 42.9
""" conservative
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Bost Local Similarity 42.5
Matches 3; Conservative
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/687,219B
FILING DATE: 25-JUL-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: FR 95 09005
FILING DATE: 25-JUL-1995
ATTORNEY/AGENT INFORMATION:
NUMBER: PC-DESTANCE PRIOR 
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APPLICANT: JOLIVET-REYNAUD, COLETTE
APPLICANT: JOLIVET-REYNAUD, COLETTE
TITLE OF INVENTION: PEPPIDE CAPABLE OF BEING RECOGNIZED BY
TITLE OF INVENTION: ANTIBODIES RECOGNIZING THE C33 ANTIGEN OF HEPATITIS C VIRUS
NUMBER OF SEQUENCES: 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INFORMATION FOR SEQ ID NO: 37: SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME: Berridge, William P.
REGISTRATION NUMBER: 30,024
REFERENCE/DOCKET NUMBER: WPB 38526
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703 836-6400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY: unknown
MOLECULE TYPE: peptide
FRAGMENT TYPE: N-terminal or C-terminal or internal
                                                                                                                                                                                                                                                               MOLECULE TYPE: peptide FRAGMENT TYPE: N-terminal or C-terminal or internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
COMPUTER: PC compati
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ADDRESSEE: OLIFF & BERRIDGE, PLC
STREET: 700 South Washington Street
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LENGTH: 8 amino acids
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TELEPHONE: 703 836-6400
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TYPE: a
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CITY: Alexandria
STATE: VA
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REGISTRATION NUMBER: 30,024
REFERENCE/DOCKET NUMBER: WPB 38526
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                                                                                                                                                                                                                                                                                                                                                       amino acid
)GY: unknown
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                                       Score 17; DB 2; Length 8; Pred. No. 1.6e+05; 1; Mismatches 3; Indels
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Pred. No. 1.6e+05;
1; Mismatches 3;
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; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-444-818-325
                                                                                                                                                                                             RESULT 23
US-08-444-818-326
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                                                                    Sequence 326, Application US/08444818
Patent No. 6150087
GENERAL INFORMATION:
APPLICANT: Chien, David Y.
APPLICANT: Rutter, William J.
APPLICANT: NANBY Diagnostics and Vaccines
NUMBER OF SEQUENCES: 777
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/444,818
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION UMBER: US/08/403,590
FILING DATE: 14-MAR-1995
ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                       Best Local Similarity
Matches 3; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: Harbin, Alisa A.
REGISTRATION NUMBER: 33,895
REFERENCE/DOCKET NUMBER: 01:
TELECOMMUNICATION INFORMATION:
                                                  NUMBER OF SEQUENCES: 7
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MEDIUM TYPE: Floppy disk
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APPLICANT: Rutter, William J.
TITLE OF INVENTION: NAMBV Diagnostics and Vaccines
NUMBER OF SEQUENCES: 777
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   STREET:
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                                   ADDRESSEE:
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94608-2916
SEE: Chiron Corporation
: 4560 Horton Street
Emeryville
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8 amino acids
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(508)359-3885
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            linear
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Pred. No. 1.6e+05,
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STATE: C

MEDIUM TYPE: Floppy disk

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US-08-444-818-327
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Harbin, Alisa A.
REGISTRATION NUMBER: 33,895
REFERENCE/DOCKET NUMBER: 0110
TELECOMMUNICATION INFORMATION:
TELEPHONE: (508)359-3885
TELEPAX: (508)359-3885
INFORMATION FOR SEQ ID NO: 326:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 327, Application US/08444818 Patent No. 6150087
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
                                   CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/403,590
FILING DATE: 14-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Harbin, Alisa A.
                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/403,590
FILING DATE: 14-MAR-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
                                                                                                                                                                                    SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Chien, David Y.
APPLICANT: Rutter, William J.
TITLE OF INVENTION: NAMBY Dia:
NUMBER OF SEQUENCES: 777
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 14-MAR-1995 ATTORNEY/AGENT INFORMATION:
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Local Similarity 50.08;
nes 3; Conservation
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CITY: Emeryville
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TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                    APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                 NAME: Harbin, Alisa A. REGISTRATION NUMBER: 3
                                                                                                                                                   FILING DATE:
                                                                                                                                                                                                                                                                                                    ZIP: 94608-2916
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER:
REFERENCE/DOCKET NUMBER:
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4560 Horton Street
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                 33,895
0110.002
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Pred. No. 1.6e+0
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; TYPE: amino acid STRANDEDNESS: single; TOPOLOGY: linear; MOLECULE TYPE: peptide US-08-444-818-327
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US-08-165-545-8
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Best Local Similarity 50.0
"Thes 3; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEFAX: (508)359-3885
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                                                                                                                                                         INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                              ANTI-SENSE:
FRAGMENT TYPE:
ORIGINAL SOURCE:
ORGANISM:
                                                                                                                                                                                                                                                                                                                          ATTORNEY/AGENT INFORMATION:
NAME: Warren M. Cheek, Jr.
REGISTRATION NUMBER: 33,367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
COMPUTER: IBM Compat
                                                                                                                                                                                                                                                                            REFERENCE/DOCKET NUMBER: TELECOMMUNICATION INFORMATION: TELEPHONE: 202-371-8850
                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION: 530 PRIOR APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM COMPATIBLE OPERATING SYSTEM: MS-DOS SOFTWARE: DisplayWrite CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Mamoru TOMITA et al.
TITLE OF INVENTION: Antimicrobial Peptide and
TITLE OF INVENTION: Antimicrobial Agent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEPHONE: (508)359-3876
                                                                                                             MOLECULE TYPE: HYPOTHETICAL:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CITY: Washington STATE: D.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/08/165,545 FILING DATE:
                                  STRAIN:
                                                                                                                                               TOPOLOGY:
                                                                                                                                                           TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                             TELEX:
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DEVELOPMENTAL STAGE:
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                 INDIVIDUAL ISOLATE:
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50.0%;
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Pred. No. 1.
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MAP POSITION IN GENOME:
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Result
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Maximum Match 100%
Listing first 50 summaries
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Database
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Scoring table:
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        Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                Score
        Query
Match Length /
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1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*
      BLOSUM62
Gapop 10.0 , Gapext 0.5
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14.080 Million cell updates/sec
Ig heavy chain CRD
Ig heavy chain CRD
T-cell receptor be
T-cell receptor be
blood cell protein
alcohol dehydrogen
                                                                                                     dissimilatory sulf
T-cell receptor gabradykinin-potenti
RPCH-related neuro
Ig heavy chain CRD
T-cell receptor be
Cholecystokinin-5
major protein anti
neuropeptide - sea
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variant surface gl
Leu-enkephalin - b
Met-enkephalin CRD
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cholecystokinin -
                                                                             neuropeptide - sea
gut pentapeptide -
bradykinin-potenti
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RESULT 2 \$33244 neuromodulatory peptide WWamide-1 - giant African snatic (species: Achatina fulica (giant African snat)) C;Species: Achatina fulica (giant African snat)) C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #C;Accession: \$33244 R;Minakata, H; Ikeda, T; Muneoka, Y; Kobayashi, M FEBS Lett. 323, 104-108, 1993 A;Title: WWamide-1, -2 and -3: novel neuromodulatory A;Reference number: \$33244; MUID:93265912 A;Accession: \$33244 A;Status: preliminary A;Molecule type: protein A;Residues: 1-7 <min> Query Match Best Local Similarity 50.0%; Pred. No. 2.2e+05; Matches 1; Conservative 1; Mismatches 0;</min>	Query Match Best Local Similarity 100.0%; Pred. No. 2.2e+05 Matches 2; Conservative 0; Mismatches 0 Qy 1 wr 2 I Db 1 wr 2	RESULT 1 \$33245 neuromodulatory peptide wwamide-2 - giant African sn. C; Species: Achatina fulica (giant African snail) C; Species: Achatina fulica (giant African snail) C; Pate: 19-Mar-1997 #sequence_revision 19-Mar-1997 # C; Accession: \$33245 R; Minakata, H.; Ikeda, T.; Muneoka, Y.; Kobayashi, M FBS Lett. 323, 104-108, 1993 A; Title: Wwamide-1, -2 and -3: novel neuromodulatory A; Reference number: \$33244; MUID: 93265912 A; Accession: \$33245 A; Status: preliminary A; Molecule type: protein A; Residues: 1-7 < MIN>	ALIGNMENTS	30 11 30.6 6 2 B34835 31 11 30.6 6 2 A31663 32 11 30.6 6 2 B31263 33 11 30.6 6 2 B35640 34 11 30.6 6 2 PT0532 36 11 30.6 6 2 PT0532 37 11 30.6 6 2 PT0532 38 11 30.6 6 2 PT0537 39 11 30.6 6 2 PT0641 40 11 30.6 6 2 PT0642 41 11 30.6 6 2 PT0642 42 11 30.6 6 2 PT0642 43 11 30.6 6 2 PT0642 44 11 30.6 6 2 PT0642 45 11 30.6 6 2 PT0642 46 11 30.6 7 2 S557274 47 11 30.6 7 2 S557274 48 11 30.6 7 2 S957274 50 11 30.6 7 2 PN0649 50 11 30.6 7 2 PN0649
nail #text_change 24-Jul-1997 M.; Nomoto, K. y peptides isolated from y peptides isolated from i, Length 7; i, Lindels 0; Gaps	Length 7; 15; 0; Indels 0; Gaps	ail text_change 24-Jul-1997 .; Nomoto, K. peptides isolated from		dnaA protein - Pse dihydrofolate redu dihydrofolate redu dihydrofolate redu locustakinin - mig cerebellar degener T-cell receptor be T-cell receptor be T-cell receptor be T-cell receptor be T-cell receptor be T-cell receptor be T-cell receptor be T-cell receptor be T-cell receptor be degree receptor gas pev-knin 2 - pena hypothetical TCL3 dermorphin (Trp-4, venom heptapeptide tryptophyllin, bas triacylglycerol li hypothetical prote alpha-dextrin endo H2 class I protein
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neuromodulatory peptide WWamide-3 - giant African snail
G:Species: Achatina fulica (giant African snail)
C:Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 24-Jul-1997
C:Accession: S33246
                                                                                                                                                                C;Species: Mytilus edulis (blue mussel)
C;Species: Mytilus edulis (blue mussel)
C;Accession: B61445
R;Leung, M.K.; Stefano, G.B.
                                                                                                                                                                                                                                                                                                                                                                                                                                 Mol. Biochem. Parasitol. 2, 135-150, 1981
A.Title: Glycopeptides from variant surface
A.Reference number: A61512; MUID:81172836
A.Accession: C61512
A.Status: preliminary
A.Residues: 1-8 <HOL>
C; Keywords: glycoprotein
                                                                                                    A;Title: Isolation and identification of en A;Reference number: A61445; MUID:84144823 A;Accession: B61445
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A;Accession: S33246
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A;Molecule type: protein
A;Residues: 1-7 <MIN>
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FEBS Lett. 323, 104-108,
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                                                      A;Molecule type: protein
A;Residues: 1-5 <LEU>
A;Experimental source: pedal ganglia
C;Keywords: neuropeptide; opioid peptide
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C;Date: 28-Oct-1994 #sequence_revision
C;Accession: C61512
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Proc. Natl. Acad. Sci. U.S.A. 81, 955-958, 1984
A;Title: Isolation and identification of enkephalins
A;Reference number: A61445; MUID:84144823
A;Accession: A61445
A;Molecule turn
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C;Species: Mytilus edulis (blue mussel)
C;Date: 07-OCT-1994 #sequence_revision
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A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity A;Reference number: PT0222; MUID:91108337
A;Accession: PT0278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
C;Accession: P10278
                                                                                                                                                                 C;Species: Mus musculus (house mouse)
C;Date: 03-Feb-1994 #sequence_revision
C;Accession: A41946
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A; Residues: 1-5 < YAM>
A; Residues: 1-5 < YAM>
A; Experimental source: B lymphocyte
C; Keywords: heterotetramer; immunog
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                                                         A;Title: Rearrangement and junctional-site sequence analyses of T-cell receptor gamma A;Reference number: A41946; MUID:92049316 A;Accession: A41946
                                                                                                                        C;Accession: A41946
R;Whetsell, M.; Mosley, R.L.; Whetsell, L.; Schaefer, F.V.; Miller, K.S.; Klein, J.R. Mol. Cell. Biol. 11, 5902-5909, 1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ig heavy chain CRD3 region (clone 4-88) - human (fragment)
A; Molecule type:
A; Residues: 1-6
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                                      A; Status: preliminary; not compared with conceptual translation
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Pred. No. 2.2e+05;
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N;Alternate names:
C;Species: Macropus
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A;Residues: 1-7 <MAD>
C;Superfamily: procenkephalin
C;Keywords: neuropeptide; opioid peptide
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R;Fan, Z.W.; Eng, J.; Shaw, G.; Yalow, R.S.
Peptides 9, 429-431, 1988
A;Title: Cholceystokinin octapeptide purified
A;Roference number: PQ0012; MUID:88234141
A;Accession: PQ0012
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C;Kcywords: amidated carboxyl end; hormone; neuropeptide; sulfoprotein
F;2/Bloding site: sulfate (Tyr) (covalent) #status predicted
F;8/Modified site: amidated carboxyl end (Phe) #status predicted
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N;Alternate names: CCK
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C;Date: 07-Sep-1990 #sequence_revision 07-Sep-1990
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Pred. No. 2.2e+05;
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k;Steuber, J.; Arendsen, A.F.; Hagen, W.R.; Kroneck, P.M.H.
Eur. J. Blochem. 233, 873-879, 1995
A;Title: Molecular properties of the dissimilatory sulfite reductase from Desulfovibr A;Reference number: S63489; MUID:96085152
A;Accession: S63493
Query Match
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A;Molecule type: DNA
A;Residues: 1-8 cMHE>
C;Keywords: T-cell receptor
                                                                                                                                                                                                                                                                                                                                                                                  R; Whetsell, M.; Mosley, R.L.; Whetsell, L.; Schaefer, F.V.; Miller, K.S.; Klein, J.R. Mol. Cell. Biol. 11, 5902-5909, 1991
A; Title: Rearrangement and junctional-site sequence analyses of T-cell receptor gamma A; Reference number: A41946; MUID:92049316
A; Accession: A38887
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C:Species: Mus musculus (house mouse)
C:Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 07-May-1999
C:Accession: A38887
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A;Molecule type: protein
A;Residues: 1-8 <ST2>
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A; Residues: 1-8 <STE>
A; Accession: $63494
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           T-cell receptor gamma chain (5t 2) - mouse (fragment)
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Pred. No. 2.2e+05;
1; Mismatches 4
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A; Molecule type: DNA
A; Residues: 1-4 <YAM>
A; Experimental source: B
                                                          Ig heavy chain CRD3 region (clone 2-100B) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
C;Accession: PT0240
R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera,
J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain div
A;Reference number: PT0222; MUID:91108337
A;Accession: PT0240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RPCH-related neuropeptide - ferruginous spindle C;Species: Fusinus ferrugineus (ferruginous spindle) C;Date: 06-Jul-1990 #sequence_revision 06-Jul-1990 #text_change 31-De C;Accession: A34626 R:Kuroki, Y.; Kanda, T.; Kubota, I.; Fujisawa, Y.; Ikeda, T.; Miura, Biochem. Biophys. Res. Commun. 167, 273-279, 1990 A;Title: A molluscan neuropeptide related to the crustacean hormone, A;Reference number: A34626; MUID:90179762 A;Accession: A34626 A;Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Title: Primary structure and biological activity of bradykinin potential A;Reference number: A37196; MUID:90351557
A;Accession: F37196
A;Status: preliminary
A;Molecule type: protein
A;Molecule type: protein
A;Residues: 1-3 CCIN>
C;Keywords: pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Residues: 1-4 <KUR>
C; Keywords: neuropeptide
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Similarity 100.0%; Pred. No.
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Pred. No.
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Mismatches 0;
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2.2e+05;
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                                                                                                                                           S.; Caton, A.J.; Rovera,
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RESULT
A32516
cholecystokinin-5 - dog
N;Alternate names: CCK-5
C;Species: Canis lupus familiaris (dog)
C;Date: 18-Oct-1989 #sequence_revision 18-Oct-1989 #text_change 18-Aug-2000
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B53284

T-cell receptor beta 2 chain D region, Dbeta2 - rabbit C; Species: Oryctolagus cuniculus (domestic rabbit) C; Date: 02-May-1994 #sequence_revision 18-Nov-1994 #text_change C; Accession: B53284
                                                                                                                                                                                                                                                                                                                                                                                                                                            T-cell receptor beta chain V-D-J region (121-1BV) - mouse (fragment) C;Species: Mus musculus (house mouse) C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-M:C;Accession: PT0661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Status: preliminary
A;Molecule type: DNA
A;Molecule type: DNA
A;Residues: 1-4 <HAR>
A;Cross-references: GB:S60737; NID:9233916; PIDN:AAB10518.1; PID:9233918
A;Note: sequence extracted from NCBI backbone (NCBIN:60737, NCBIP:60738)
C;Keywords: T-cell receptor
                                                                                                                                                                                                                                                                                 A; Experimental source: day 4 postnatal thymus, strain BALB/c C; Keywords: T-cell receptor
                                                                                                                                                                                                                                                                                                                 A; Molecule type: mRNA
A; Residues: 1-4 <FEE>
                                                                                                                                                                                                                                                                                                                                                                               J. Exp. Med. 174, 115-124, 1991
A; Title: Junctional sequences of fetal T cell
A; Reference number: PT0509; MUID:91277601
                                                                                                                                                                                                                                                                                                                                               A; Status: translation not shown
                                                                                                                                                                                                                                                                                                                                                               A; Reference number: A; Accession: PT0661
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J. Exp. Med. 1
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100.0%; Pr
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3. 2.2e+05;
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2.2e+05;
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C;Accession: A32516
R;Shively, J.; Reeve Jr., J.R.; Eysselein, V.E.; Ben-Avram, C.; Vigna, S.R.; Walsh, Am. J. Physiol. 252, G272-G275, 1987
A;Title: CCK-5: sequence analysis of a small cholecystokinin from canine brain and A;Reference number: A32516; MUID:87153871
A;Accession: A32516
A;Molecule type: protein A;Residues: 1-5 <SHI>C;Comment: This peptide corresponds to the five carboxyl-terminal residues of C;Superfamily: gastrin
C;Roywords: amidated carboxyl end; neuropeptide
F;5/Modifled site: amidated carboxyl end (Phe) #status experimental
                                                                                                                                                      A; Molecule type: protein
A; Residues: 1-5 <GRA>
A; Residues: 1-5 <GRA>
C; Keywords: amidated carboxyl end; neuropeptide; pyroglutamic acid
F; 1/Modified site: pyrrolldone carboxylic acid (Gin) #status experimental
F; 5/Modified site: amidated carboxyl end (Trp) #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C;Species: Mycobacterium tuberculosis
C;Date: 11-Dec-1992 *sequence_revision 11-Dec-1992 *text_change 30-Sep-1993
C;Accession: E60274
R;Nagul, S.; Wiker, H.G.; Harboe, M.; Kinomoto, M.
Infect. Immun. 59, 372-382, 1991
A;Title: Isolation and partial characterization of major protein antigens i A;Reference number: A60274; MUID:91099989
A;Accession: E60274
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E60274
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                                                                                                                                                                                                                                                                    A; Title: Isolation of <Glu-Ser-Lu-Arg-Trp-NH-2, A; Reference number: A60803; MUID:88222764
                                                                                                                                                                                                                                                                                                          R;Graff, D.; Grimmelikhuijzen, C.J.P. Brain Res. 442, 354-358, 1988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: protein A; Residues: 1-5 < NAG>
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J. 2.2e+05;
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2.2e+05;
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A; Status: preliminary
A; Molecule type: protein
A; Molecule type: 5 cCINS
C; Residues: 1-5 cCINS
C; Reywords: pyroglutamic a
F; 1/Modified site: pyrroli
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R;Cintra, A.C.O.; Vieira, C.A.;
J. Protein Chem. 9, 221-227, 199
A;Title: Primary structure and b
A;Reference number: A37196; MUID
A;Accession: G37196
                                                                                                                                           Ig heavy chain CRD3 region (clone 4-91C) - human (fragment) C;Species: Homo sapiens (man) C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_ch C;Accession: PT0281
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G37196
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A; Residues: 1-5 < YAM>
A; Experimental source:
C; Keywords: heterotetra
                                                                             R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G. J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity A;Reference number: PT0222; MUID:91108337
                                                                                                                                                                                                            RESULT
PT0281
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; Experimental source: gut C; Comment: This peptide increased basal tone of the circular muscle , and of the circular muscle of the gastro-intestinal junction.
                                                              A; Reference number: PT0222;
A; Accession: PT0281
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MUID:90351557
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Ig heavy chain CRD3 region (clone 6-88) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
C;Accession: pT0308
R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.
J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity and A;Reference number: pT0222; MUID:91108337
A;Accession: pT0308
A;Molecule type: DNA
A;Residues: 1-5 <YAM>
A;Experimental source: B lymphocyte
C;Keywords: heterotetramer; immunoglobulin
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Search completed: January 14, 2002, 07:44:22 Job time: 408 \sec
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da; Pulmonata; S	update) nn update)	7 AA.		; DB 1; Length , le+05; tches 1; Inde	I. B5DB0 CRC64;	LATES THE CONTRA	Transels L., van Keerbergien A., Schols L., Turrekens S., Grauwels L., van Keuven F., de Loof A.; "Identification, characterization, and immunological local. "Identification, characterization, and immunological local. "Investment myotropic neuropeptide in the Colorado potato beet.	3		ata; Hexapoda; I leoptera; Polyph lea; Chrysomelida	tato beetle).	date)	7 AA.	NTS							
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MIDLINE-93265912; PubMed-8495720;
Minakata H., Ikeda T., Muneoka Y., Kobayashi M., Nomoto K.;
Minakata H., Ikeda T., Muneoka Y., Kobayashi M., Nomoto K.;
"Wamide-1, -2 and -3: novel neuromodulatory peptides isolated from ganglia of the African giant snail, Achatina fulica.";
FEBS Lett. 323:104-108(1993).
-i- FUNCTION: EXHIBITS MODULATORY EFFECTS ON THE PERIPHERAL NERVOUS
SYSTEM. INHIBITS ACTIVITY ON A CENTRAL NEURON.
                                                                                                                                                                                                                                                                                                MEDLINE-93265912; PubMed-8495720; Minakata H., Ikeda T., Muneoka Y., Kobayashi M., Nomoto K. "Wwamide-1, -2 and -3: novel neuromodulatory peptides isol ganglia of the African giant snail, Achatina fulica."; FEBS Lett. 323:104-108(1993).
                                                                                                                                                                                                                                                                                                                                                                                        Achatina fulica (Giant African snail).
Eukaryota; Metazoa; Mollusca; Gastropoda; Pulmonata; Stylommatophora;
Achatinacea; Achatinidae; Achatina.
NCBI_TaxID=6530;
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NCBI_TaxID=6530;
                                 Achatina fulica (Giant African snail).
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                        Achatinidae; Achatina.
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7362D5B69B041310 CRC64;
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1; Mismatches
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P7_BOTIN STAN
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P30425;
01-APR-1993 (Rel. :
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MEDLINE-93265912; PubMed-8495720;
Minakata H., Ikeda T., Muneoka Y., Kobayashi
"WWamide-1, -2 and -3: novel neuromodulatory
ganglia of the African giant snail, Achatina
FEBS Lett. 323:104-108(1993).
PIR; S33244: S33244.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          marsupials.";
Peptides 9:429-431(1988).
Peptides 9:429-431(1988).
Peptides 9:429-431(1988).
AND THE RELEASE OF PANCREATIC ENZYMES IN THE GUT. ITS FUNCTION THE BRAIN IS NOT CLEAR.
PERSONNELS OF PANCREATIC ENZYMES TO THE GASTRIN/CHOLECYSTOKININ FAMILY.
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleos Mammalia; Metatheria; Diprotodontia; Macropodidae; Macropus. NCBI_TaxID=9315, 9279;
                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
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PIR; PQ0012; PQ0012.
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PS00259; GASTRIN; 1.
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0; Mismatches
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AMIDATION.
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25, Created)
28, Last sequence update)

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RESULT 8
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MEDLINE-95009907; PubMed-7523108;

MEDLINE-95009907; PubMed-7523108;

Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkirk Merrick B.A., Patterson gof familiar and novel murine pro-
"Separation and sequencing of familiar and novel murine pro-
"Separation and management and all electrophoresis.";
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                                                                                                                                                                                                                                   using preparative two-dimensional gel electrophoresis. Electrophoresis 15:735-745(1994).
-I- MISCELLANEOUS: ON THE 2D-GEL THE DETERMINED PI OF
                                                                                                                                                                                                                                                                                                                                                                                                                01-OCT-1994 (Rel. 30, Created)
01-OCT-1994 (Rel. 30, Last sequence update)
01-FEB-1995 (Rel. 31, Last annotation update)
UNKNOWN PROTEIN FROM 2D-PAGE OF FIBROBLASTS (
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;
Viperidae; Crotalinae; Bothrops.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-FEB-1994 (Rel. 28, Last annotation update) BRADYKININ-POTENTIATING PEPTIDE S5,2 (5A) (ANGIOTENSIN-CONVERTING
                                                                                                                                                                                                                                                                                                                                    SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa; Chordata; Craniata; Ver
Mammalia; Eutheria; Rodentia; Sciurognathi;
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01-NOV-1995 (Rel. :
01-NOV-1995 (Rel. :
15-JUL-1998 (Rel. :
LOCUSTAKININ I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OVM_LEPDE
P42985;
                                                                                                                                                                                                                                                                                                                   MEDLINE-91271080; PubMed-2052497; Spittaels K., Schoofs L., Grauwels L., Sm Proost P., Torrekens S., de Loof A.; "Isolation, identification and synthesis stimulating head peptide in the Colorado
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-NOV-1995 (Rel. 32, Created)
01-NOV-1995 (Rel. 32, Last sequence update)
01-NOV-1995 (Rel. 32, Last sequence update)
01-NOV-1995 (Rel. 32, Last annotation update)
01-DUCTAL MOTILITY STIMULATING PEPTIDE (LED-OVM).
Leptinotarsa decemilineata (Colorado potato beetle).
Leptinotarsa decemilineata (Colorado potato beetle).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecenterygota; Neoptera; Endopterygota; Coleoptera; Polyphaga;
Cucujiformia; Phytophaga; Chrysomeloidea; Chrysomelidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Locustakinin, a novel myotropic peptide from Locusta migratoria, isolation, primary structure and synthesis.";
Regul. Pept. 37:49-57(1992).
-i- FUNCTION: MYOTROPIC PEPTIDE. MAY BE IMPORTANT IN THE STIMULATION OF ION TRANSPORT AND INHIBITION OF DIURETIC ACTIVITY IN MALPIGHIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa; Arthropoda; Traci
Pterygota; Neoptera; Orthopteroidea;
Acridomorpha; Acridoidea; Acrididae;
                                                                                                                                                       Neuropeptide; Amidation.
MOD_RES 6 6
SEQUENCE 6 AA; 720 MW
                                                                                                                                                                                                                                                 Peptides 12:31-36(1991)
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PIR; A61068; A61068.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TISSUE=Corpora cardiaca;
MEDLINE=92262851; PubMed
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NCBI_TaxID=7004;
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686365A5B9CDB000
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Submitted (MAY-1988) to the SWISS-PROT data bank.
-!- FUNCTION: ACTIVE ON NEUROMUSCULATURE.
-!- SIMILARITY: BELONGS TO THE FARP (FMRFAMIDE RELAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PAR3_HAECO STANDARD; PRT; 7 AA. P81298; 30-MAY-2000 (Rel. 39, Created) 30-MAY-2000 (Rel. 39, Last sequence update) 30-MAY-2000 (Rel. 39, Last annotation update) EMRFAMIDE-LIKE NEUROPEPTIDE PF3 (KSAYMRF-AMIDE).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "Isolation and identification of multiple neuropeptides of the allatostatin superfamily in the shore crab Carcinus maenas.";
Eur. J. Biochem. 250:727-734(1997).

-i - FUNCTION: MAY ACT AS A NEUROTRANSMITTER OR NEUROMODULATOR.

-i - SIMILARITY: BELONGS TO THE ALLATOSTATIN FAMILY.

Neuropeptide: Amidation; Multigene family.

MOD_RES 7 7 AMIDATION (POTENTIAL).

SEQUENCE 7 AA; 770 MW; 672879CDCB5DDB70 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Haemonchus contortus.

Bukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Strongylida; Trichostrongyloidea; Haemonchidae; Haemonchinae; Haemonchus.

NCBI_TaxID=6289;
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MEDLINE-98121193; PubMed-9461295;
Duve H., Johnsen A.H., Maestro J.-L., Scott A.G., Jaros
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;
Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyura;
Eubrachyura; Portunoidea; Portunidae; Carcinus.
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                                                                                                                                                                                                         902 MW;
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NEUROMUSCULATURE.
TO THE FARP (FMRRAMIDE RELATED PEPTIDE)
                                                                                                                                                                                                      AMIDATION.
69D4068B5DC5B350
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STANDARD; PRT; 8 AA.

P18691;

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01-NOV-1990 (Rel. 16, Last sequence update)

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Biochem. b...
bir, A31570; A
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MOD_RES 7 7
SEQUENCE 7 AA; 902 MW
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MEDLINE=94235053; PubMed=8179635;

Maule A.G., Shaw C., Bowman J.W., Halton D.W., Thompson D.P.,

Geary T.G., Thim L.;

"KSAYMRPamide: a novel FMRFamide-related heptapeptide from the free-
living nematode, Panagrellus redivivus, which is myoactive in the
parasitic nematode, Ascaris suum.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FAR3_PANRE STANDARD; PRT; 7 AA. P41874; P195 (Rel. 32, Created) 01-NOV-1995 (Rel. 32, Last sequence update) 01-NOV-1995 (Rel. 32, Last annotation update) 101-NOV-1995 (Rel. 32, Last annotation update) FMRFAMIDE-LIKE NEUROPEPTIDE PF3 (KSAYMRF-AMIDE).
                                                                                                                                                                                                                                                                MEDLINE=88326322; PubMed=3415688; Kohama Y., Matsumoto S., Oka H.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Panagrolaimoidea;
NCBI_TaxID=6233;
                                                                                                                                                                                                                                        Kohama Y., Matsumoto S., Oka H., Teramoto T., Okabe M., Mi
"Isolation of angiotensin-converting enzyme inhibitor from
                                                                                                                                                                                                                                                                                                                   TISSUE=Muscle;
                                                                                                                                                                                                                                                                                                                                                  SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Biochem. Biophys. Res. Commun. 20-i- FUNCTION: MYOACTIVE; INDUCES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida;
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                                                                                                                                         Biophys. Res. Commun. 155:332-337(1988).
570; A31570.
8 AA; 953 MW; 6AA863733051F1B7 CRC64
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69D4068B5DC5B350
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Pred. No.
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ES A RAPID CONCENTRATION-DEPENDENT
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                                                                                  P25418;
01-MAY-1992
01-FEB-1994
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   SPECIES:R.microptera; TISSUE=Corpora cardiaca;
MEDLINE:89145002; PubMed=3226948;
Guade G., Hilbich C., Beyreuther K., Rinehart K.L. Jr.;
Guade G., Hilbich C., Beyreuther K., Rinehart K.L. Jr.;
"Sequence analyses of two neuropeptides of the AKH/RPCH-family from the lubber grasshopper, Romalea microptera.";
Peptides 9:881-688(1988),
-1- FUNCTION: THIS HORMONE, RELEASED FROM CELLS IN THE CORPORA
CARDIACA AFTER THE BEGINNING OF FLIGHT, CAUSES RELEASE OF
DIGLYCERIDES FROM THE FAT BODY AND THEN STIMULATES THE FLIGHT
MUSCLES TO USE THESE DIGLYCERIDES AS AN ENERGY SOURCE.
                         Libellula auripennis (Skimmer dragonfly).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insec
Pterygota; Palaeoptera; Odonata; Anisoptera; Libellulidae;
                                                                 01-MAY-1992 (Rel. 22, Created)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last annotation update)
ADIPOKINETIC HORMONE (AKH).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Primary sequence analysis by fast atom bombardment mass of a peptide with adipokinetic activity from the corpora the cricket Gryllus bimaculatus.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SPECIES G. bimaculatus; TISSUE GOR
MEDLINE 88106553; PubMed 3426616;
Gaede G., Rinehart K.L. Jr.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-JAN-1990 (Rel. 13, Created)
01-FEB-1994 (Rel. 28, Last sequence upd
01-FEB-1994 (Rel. 28, Last annotation u
ADIPOKINETIC HORMONE G (AKH-G) (RO II).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              P14086;
01-JAN-1990
NCBI_TaxID=6966;
                                                                                                                                         AKH_LIBAU
                                                                                                                                                                                                                                                                                                                                            SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                    Neuropeptido; Amidation; Flight.
MOD_RES 1 1 PYRROLIDONE CARBOXYLIC
                                                                                                                                                                                                                                                                                                                                                                                                                                -1- SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
PIR: A28004; A28004.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pterygota; Neoptera; Orthopteroidea; Orthoptera; Ensifera; Gryllidae; Gryllinae; Gryllus.
NCBI_TaxID=6999, 7007;
                                                                                                                                                                                                                                                                                                                                                           MOD_RES
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE
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                                                                                                                                          STANDARD
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                          Libellula.
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RESULT 16

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C P25423;

T 01-MAY-1992 (Rel. 22, Created)

T 01-FEB-1994 (Rel. 28, Last sequence update)

T 01-FEB-1994 (Rel. 28, Last annotation update)

T 01-FEB-1994 (Rel. 28, Last annotation update)

E ADIPOKINETIC HORMONE (AKH).

Melolontha melolontha (Cockhafer),

S Melolontha melolontha (Cockhafer),

S Melolontha marginata (Flower beetle), and

S Pachnoda marginata (Flower beetle).

E Lukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;

C Eukaryota; Meoptera; Endopterrygota; Coleoptera; Polyphaga;

C Scarabaeiformia; Scarabaeidae; Melolonthinae; Melolontha.

N NOBL_TaxID-7061, 7087, 7058;
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Best Local
                 Spectrometry.";

BIO1. Chem. Hopper-Seyler 373:133-142(1992).

II Chem. Hopper-Seyler 373:133-142(1992).

II CHEM. HOPPER-SEYLER THE BEGINNING OF FLIGHT, CAUSES RELEASE OF CARDIACA AFTER THE BEGINNING OF FLIGHT, CAUSES RELEASE OF DIGLYCERIDES FROM THE FAT BODY AND THEN STIMULATES THE FLIGMUSCLES TO USE THESE DIGLYCERIDES AS AN ENERGY SOURCE.

II SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.

PIR; S15422; S15422.

PIR; S21663; S21663. ....
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-I- FUNCTION: THIS HORMONE, RELEASED FROM CELLS IN THE CORP. CARDIACA AFTER THE BEGINNING OF FILIGHT, CAUSES RELEASE DIGLYCERIDES FROM THE FAT BODY AND THEN STIMULATES THE MUSCLES TO USE THESE DIGLYCERIDES AS AN ENERGY SOURCE.

-I- SINILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
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"The putative ancestral peptide of the adipokinetic/red-pigment-concentrating hormone family isolated and sequenced from a dragonfly.";
                                                                                                                                                                                                                                                                              Gaede G., Lopata A., Kellner R., Rinehart K.L. Jr.; "Primary structures of neuropeptides isolated from the corpora cardiaca of various cetonid beetle species determined by pulsed-liquid phase sequencing and tandem fast atom bombardment mass
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                                                                                                                                                                                                                                                                                                                                                                                       SPECIES=P.marginata; TISSUE=Corpora cardiaca; MEDLINE=92265187; PubMed=1586453;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "A unique charged tyrosine-containing member of the adipokinetic hormone/red-pigment-concentrating hormone peptide family isolated sequenced from two beetle species."; Biochem. J. 275:671-677(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SPECIES-M.melolontha, and G.stercorosus; MEDLINE-91248100; PubMed-2039445;
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MOD_RES 1 1 PYR
MOD_RES 8 8 AMI
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rPro; IPR002047; AKH.
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8665A771A9C452D6 CRC64;
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le+05;
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P04548;
13-AUG-1987
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MOD_RES
MOD_RES
SEQUENCE 8 A
         13-AUG-1987 (Rel. 05, Created)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last sequence update)
11-FEB-1994 (Rel. 28, Last annotation update)
HYPERTREHALOSAEMIC FACTOR I (NEUROPEPTIDE M-I) (PERIPLANETIN CC-I)
(PEA-CAH-I) (LED-CC-I) (HYPERTREHALOSAEMIC NEUROPEPTIDE I).
                                                                                                                                                                                                                                                                                                                                                                 "Primary structure of two neuropeptide hormones with adipokinetic hypotrehalosemic activity isolated from the corpora cardiaca of ho flies (Diptera).";

Proc. Natl. Acad. Sci. U.S.A. 86:8161-8164(1989).

-i- FUNCTION: THIS HORMONE, RELEASED FROM CELLS IN THE CORPORA CARDIACA AFTER THE BEGINNING OF FLIGHT, CAUSES RELEASE OF DIGLYCERIDES FROM THE FAT BODY AND THEN STIMULATES THE FLIGHT MUSCLES TO USE THESE DIGLYCERIDES AS AN ENERGY SOURCE.

-i- SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
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P14595;
                                                                                                        PERAM
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MOD_RES 1 1 PYRROLIDONE CARBOXYLIC MOD_RES 8 8 AMIDATION.

SEQUENCE 8 AA; 949 MW; 86786771A9D1A736 CRC64;
                                                                                                                                                                                                                                                                                                                                                           PIR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=90046758; PubMed=2813385;
Jaffe H., Raina A.K., Riley C.T., Fraser B.A., Nachman R.J.,
Vogel V.W., Zhang Y.-S., Hayes D.K.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-JAN-1990 (Rel. 13, Created)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last annotation updat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TISSUE=Corpora cardiaca; MEDLINE=90046758; PubMed
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Tabanidae;
Periplaneta
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Tabanus atratus (Horse fly).
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InterPro; IPR002047; AKH.
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Neoptera; Endopterygota; Diptera; Brachycera; Tabanomorpha;
Tabanus.
  americana
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larity 100.0%;
Conservative
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HORMONE (AKH) (DIPTERAN CORPORA CARDIACA FACTOR
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1022 MW;
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100.0%;
 (American cockroach),
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867AB775AB544736 CRC64;
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Pred. No.
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RESULT 19
HTF2_PERAM
ID HTF2_PERAM
AC P04549;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaede G., Rinehart K.L. Jr.;

Gaede G., Rinehart K.L. Jr.;

"Primary structures of hypertrehalosaemic neuropeptides isolated from the corpora cardiaca of the cockroaches Leucophaea maderae, Gromphadorhina portentosa, Blattella germanica and Blatta orientalis and of the stick insect Extatosoma tiaratum assigned by tandem fast atom bombardment mass spectrometry.";

Biol. Chem. Hoppe-Seyler 371:345-354 (1990).

-i- FUNCTION: HYPERTREHALOSAEMIC FACTORS ARE NEUROPEPTIDES THAT ELEVATE THE LEVEL OF TREHALOSE IN THE HEMOLYMPH (TREHALOSE IS THE MAJOR CARBOHYDRATE IN THE HEMOLYMPH OF INSECTS).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaede G., Kellner K.; "The metabolic neuropeptides of the cobeetle and the American cockroach are Peptides 10:1287-1289(1989).
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SPECIES=P.americana;
SPECIES=P.americana;
MEDLINE=85046530; PubMed=6548628;
MCH., O'Shea M.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PIR;
PIR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Isolation and primary structure of two peptides with cardioacceleratory and hyperglycemic activity from the cardiaca of Periplaneta americana."; Proc. Natl. Acad. Sci. U.S.A. 81:5575-5579(1984).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SPECIES=P.americana;
MEDLINE=84298179; PubMed=6591205;
Scarborough R.M., Jamieson G.C.,
                                                                                                                                                                                                                                                                                                                                                                                                                          PIR; A49823;
PIR; A44960;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoc
Pterygota; Neoptera; Orthopteroidea; Dictyoptera;
Blattoidea; Blattidae; Periplaneta.
NCBI_TaxID=6978, 7539, 6976;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SPECIES=L.decemlineata; TISSUE=Corpora cardiaca MEDLINE=90160053; PubMed=2576128;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Structures of two cockroach neuropeptides assigned bombardment mass spectrometry."; biochem. Biophys. Res. Commun. 124:350-358(1984).
                                                                                                                                                                                                                                                                                                         SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                      Neuropeptide;
                                                                                                                                                                                                                                                                                                                                                                          InterPro; 1..... PS00256;
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; IPR002047; AKH.
PS00256; AKH; 1.
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100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TO THE AKH / HRTH / RPCH FAMILY
                                                                                                                                                                                                                                                                                                         PYRROLIDONE CARBOXYLIC AMIDATION. 86745775B9C452D6 CRC64;
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                                                                                                                                                                                                                           Score 11;
Pred. No.
                                                                                                                                                                                                        Mismatches
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RC SPECIES-B. Orientalis; TISSUE-Corpora cardiaca;

RX MEDLINE-90253659; PubMed-2340112;

RA Gacde G., Rinehart K.L. Jr.;

RA Gacde G., Rinehart K.L. Jr.;

RA Gacde G., Rinehart K.L. Jr.;

RT "Primary structures of hypertrehalosaemic neuropeptides isolated from the corpora cardiaca of the cockroaches Leucophaea maderae,

RT Gromphadorhina portentosa, Blattella germanica and Blatta orientalis

RT and of the stick insect Extatosoma tiaratum assigned by tandem fast

RT and of the stick insect Extatosoma tiaratum assigned by tandem fast

RT and of the stick insect Extatosoma tiaratum assigned by tandem fast

RT atom bombardment mass spectrometry;

RL blol. Chem. Hoppe-Seyler 371:345-354(1990).

CC -1- FUNCTION: HYPERTREHALOSAEMIC FACTORS ARE NEUROPEPTIDES THAT

CC -1- FUNCTION: HYPERTREHALOSAEMIC FACTORS ARE NEUROPEPTIDES THAT

CC THE MAJOR CARBOHYDRATE IN THE HEMOLYMPH (TREHALOSE IS

CT -1- SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
                                                                                                           Matches
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Best Local
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01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last sequence update)
INTEB-1994 (Rel. 28, Last sequence update)
INTER-1994 (Rel. 28, Last sequence
                                                                                                                                                                                                                                    MOD_RES
MOD_RES
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "Isolation and primary structure of two peptides with cardioacealeratory and hyperglycemic activity from the cardioacealeratory and hyperglycemic activity from the cardiaca of Periplaneta americana.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SPECIES-P.americana;
MEDLINE-84298179; Pu
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MEDLINE-85046530; PubMed-654
Witten J.L., Schaffer M.H.,
Rinehart K.L. Jr.;
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NCBI_TaxID~6978, 7539, 6976;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "The metabolic neuropeptides of the beetle and the American cockroach Peptides 10:1287-1289(1989)."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SPECIES-L.decemlineata; TISSUE-Corpora cardiaca
MEDLINE-90160053; PubMed-2576128;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE-84298179; PubMed-6591205; Scarborough R.M., Jamieson G.C.,
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                                                                                                                                                                                                                                                                                                                                               InterPro;
PROSITE; P
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B49823;
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$08996; $08996.
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; IPR002047; AKH.
PS00256; AKH; 1.
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ffer M.H., O'Shea M.,
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                                                                                                                                 30.6%;
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Pred. No.
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                                                                                                           Mismatches
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Best Local (
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MOD_RES
SEQUENCE
                                                                             from Leucophaea maderae: members of a new family of Cephalomyotropins.";
Comp. Riochem.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOD_RES
MOD_RES
SEQUENCE
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01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last annotation update)
01-FEB-1994 (Rel. 28, Last annotation update)
HYPERTREHALOSAEMIC FACTOR (HOTH) (HYPERTREHALOSEMIC NEUROPEPTIDE).
Tenebrio molitor (Yellow mealworm), and Zophobas rugipes.
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Endopterygota; Coleoptera; Polyphaga;
Cucujiformia; Tenebrionidae; Tenebrio.
                                                                           Comp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "The primary structure of the hypertrehalosemic neuropeptide from tenebrionid beetles: a novel member of the AKH/RPCH family."; reptides 11:455-459(1990).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           P25419;
01-MAY-1992
                                                                                                                                                                                        Leucophaea maderae (Madeira cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoc
Pterygota; Neoptera; Orthopteroidea; Dictyoptera;
Blaberidae; Leucophaea.
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              Neuropeptide; Amidation.
                                    Comp. Biochem. Physiol. 84C:205-211(1986).

-i- FUNCTION: THIS CEPHALLOMYOTROPIC PEPTIDE STIMULATES CONTRACTILE
ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).

-i- SIMILARITY: TO THE OTHER LEUCOKININS.
                                                                                                                           Holman G
                                                                                                                                       TISSUE-Head;
                                                                                                                                                    SEQUENCE, AND SYNTHESIS
                                                                                                                                                                            NCBI_TaxID=6988;
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on, primary structure and syn
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 AMIDATION.
DC6365B449CDC76A CRC64;
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86745775B9C44736 CRC64;
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Pred. No.
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Best Local
                                      TISSUE=Head;
Holman G.M., Cook B.J., Nachman R.J.;
Primary structure and synthesis of two additional neuropeptides
                                                                                                                                                                                    P21142:
01-MAY-1991 (Rel. 18, Created)
01-MAY-1991 (Rel. 18, Last sequence update)
01-MAY-1991 (Rel. 18, Last annotation updat
LEUCOKININ III (L-III)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TISSUE-Head;
Holman G.M., Cook B.J., Nachman R.J.;
"Isolation, primary structure and synthesis of two neuropeptides
from Leucophaea maderae: members of a new family of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P21141;
01-MAY-1991 (Rel. 18, Created)
01-MAY-1991 (Rel. 18, Last sequence up
01-MAY-1991 (Rel. 18, Last annotation
LEUCOKININ II (L-II)
          Comp. Biochem. Physiol. 84C:271-276(1986).
-!-\ FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).
                                                                                                                                         Leucophaea maderae (Madeira cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Bla
Blaberoidea; Blaberidae; Leucophaea.
                                                                                                                                                                                                                                                                                                                                                                                                            Neuropeptide; Amidation.
MOD_RES 8 8
SEQUENCE 8 AA; 852 MW
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Eukaryota; Metazoa; Arthropoda; Trache
Pterygota; Neoptera; Orthopteroidea; D
Blaberoidea; Blaberidae; Leucophaea.
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LCK3_LEUMA
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LCK2_LEUMA
                                                                                                       SEQUENCE, AND SYNTHESIS.
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                                                                                                                             NCBI_TaxID=6988;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Biochem. Physiol. 84C:205-211(1986).
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                                                                                                                                                                                                                                                                                                                                               LCK4_LEUMA STANDARD; PRT; 8 AA.

P21143;
01-MAY-1991 (Rel. 18, Created)
01-MAY-1991 (Rel. 18, Last sequence update)
01-MAY-1991 (Rel. 18, Last annotation update)
LEUCOKININ IV (L-IV).
Leucophaea maderae (Madeira cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blaberoidea; Blaberidae; Leucophaea.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Neuropeptide; Amidation.
MOD_RES 8 8
SEQUENCE 8 AA; 910 MW
"Isolation, primary structure, and synthesis myotropic peptides of Leucophaea maderae."; Comp. Biochem. Physiol. 88C:27-30(1987).
                                                                                                                                                                                                                                                                                                                    Neuropeptide; Amidation.
MOD_RES 8 8
SEQUENCE 8 AA; 906 MW
                                       MEDLINE=87052651; PubMed=2877794;
                                                   TISSUE-Head;
                                                           SEQUENCE
                                                                                       Pterygota; Neoptera; Orthopteroidea; Blaberoidea; Blaberidae; Leucophaea.
                                                                                                          Eukaryota; Metazoa; Arthropoda;
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CC -1- FUNCTION: THIS CEPHALOWYOTROPIC PEPTIDE STIMULATES CONTRACTILE
C1 -1- SUNILARITY: OF COCKROACH PROTODEDM (HINDSOUT).
C2 -1- SUNILARITY: TO THE OTHER LEUCOK ININS.
C3 PIR: JS0315; JS0315.
C4 Neuroppetide; Andiation.
C5 Neuroppetide; Andiation.
C5 Neuroppetide; Andiation.
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Q15888 homo sapien
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MEDLINE=95331633; PubMed=7607556;

Altus M.S., Wood C.M., Stewart D.A., Ro
Henderson T., Owens G.A., Danner D.B.,
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rat
NCBI_TaxID-10116;
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Last annotation update)
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SEQUENCE
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MEDILINE-81069885; PubMed=6254986;
Bonitz S.G., Coruzzi G., Thalenfeld B., Tzagoloff A., Macino
"Assembly of the mitochondrial membrane system. Structure and
nucleotide sequence of the gene coding for subunit 1 of yeast
cytochrme oxidase.";
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01-FEB-1997 (TrEMBLrel. 02, Last sequence
01-NOV-1998 (TrEMBLrel. 08, Last annotation of the control of 
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Q9QVD3;
O1-MAY-2000 (TrEMBLrel. 13, Last sequence update)
O1-MAY-2000 (TrEMBLrel. 13, Last sequence update)
O1-MAY-2000 (TrEMBLrel. 13, Last annotation update)
O1-MAY-2000 (TrEMBLrel. 13, Last annotation update)
                                                                                                                                                                                                                                                                                         Calcium channel.
NON_TER 1
NON_TER 8
SEQUENCE 8 AA;
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P70243;
01-FEB-1997 (TrEMBLrel. 02, Created)
01-FEB-1997 (TrEMBLrel. 02, Last sequence update)
01-AUG-1998 (TrEMBLrel. 07, Last annotation update)
SKELETAL MUSCLE-SPECIFIC CALCIUM CHANNEL (FRAGMENT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "Isolation and characterization of four novel bioactive peptides from a polychaete annelid, Perinereis vancaurica."; Comp. Biochem. Physiol. C. Pharmacol. Toxicol. Endocrinol. 110:297-304(1995). SEQUENCE 8 AA; 989 MW; 954772CAA87B0B59 CRC64;
                   Eukaryota; Metazoa; Mammalia; Eutheria; NCBI_TaxID=10118;
                                                                                                                                                                                                                                                                                                                                                                                                                             SKELETAL POUCE (Mouse).
Mus musculus (Mouse).
Morazoa; Chordata;
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Phyllodocida; Nereic
NCBI_TaxID=6355;
 SEQUENCE
                                                       Rattus sp.
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Mammalia; Eutheria;
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didae; Perinereis.
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STRAIN-CV. ESSEX; TISSUE:
MEDLINE-91367679; PubMed-
LAUX T., Goldberg R.B.;
"A plant DNA binding pro-
with HMG-box proteins.";
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O1-JUN-1998 (TrEMBLrel. 06, Cre
O1-JUN-1998 (TrEMBLrel. 06, Las
O1-NOV-1998 (TrEMBLrel. 08, Las
HMG-1-LIKE PROTEIN (FRAGMENT).
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J. Biol. Chem. 267:6518-6525(1992)
SEQUENCE 8 AA; 1047 MW; D72415
                                                                                   Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosid eurosids I; Fabales; Fabaceae; Papilionoideae; Glycine.
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Litori electrica. Comparison with the skin peptides from Litoria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Litoria rubella (Desert tree frog).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Amphibia; Batrachia; Anura; Neobatrachia; Bufonoidea; Hylidae;
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01-MAY-2000 (TrEMBLrel.
01-MAY-2000 (TrEMBLrel.
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Iwanaga S., Hirata M.,
"Putative inositol 1,4,5-trisphosphate
                                                                                                                      Glycine max (Soybean).
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Takeya H., Watanabe Y.,
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                                TISSUE-ROOTS;
PubMed-1891369;
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O85406;
O1-NOV-1998 (TrEMBLrel. 08, Created)
O1-NOV-1998 (TrEMBLrel. 08, Last sequence update)
O1-NOV-1998 (TrEMBLrel. 08, Last annotation update)
Bacteria; Proteobacteria; Coxiella group; Coxiella. NCBI_TaxID=777;
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Aust. J. Chem. 49:955-963(1996).

-!- FUNCTION: MAY ACT AS A NEUROMODULATOR OR NEUROTRASMITTER.

-!- TISSUE SPECIFICITY: SECRETED BY THE SKIN DORSAL GLANDS.

-!- MASS SPECTROMETRY: MM-965; METHOD-FAB.
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STRAIN-CV. ESSEX; TISSUE-ROOTS;
Mahalingam R., Knap H.T.;
Submitted (FEB-1998) to the EMBL/GenBank/DDBJ databases.
EMBL; AF047050; AAC03556.1; -.
                                                                                                                            HYPOTHETICAL 1.0 KDA PROTEIN (FRAGMENT). Coxiella burnetii.
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Litoria rubella (Desert tree frog).
Eukaryota; Metazoa; Chordata; Crani
Amphibia; Batrachia; Anura; Neobatr
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01-NOV-1996 (TrEMBLrel. 01, L
01-AUG-1998 (TrEMBLrel. 07, L
(CLONE XP15H8A) (FRAGMENT).
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STRAIN=MINE PHASE I;
Willems H., Jagger C., Baljer G.;
"Physical and genetic map of the obligate intracellular Coxiella burnetii.";
Submitted (MAY-1998) to the EMBL/GenBank/DDBJ databases EMBL; AF064963; AAD09947.1; -.
                                                        TISSUE=PLACENTA;
Lee C.C., Yazdan
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Homo sapiens (Human).
Metazoa; Chordata;
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"Characterization of a novel 6'-N-aminoglycoside gene aac(6')-IIc from the integron of a Chinese F clinical isolate.";
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                                                                                                                                                                            Mammalia; Eutheria;
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Submitted (JUN-1999) to the EMBL/GenBank/DDBJ EMBL; AF162771; AAD46628.1; -.
                                                                                                                    SEQUENCE FROM N.A.
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1; Conservative
                         Yazdani A., Wehnert M., Bailey J., Couch M.I., Chinault C.A., Baldini A., Lindsay
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Last annotation updat
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the obligate intracellular bacterium
                                                                                                                                                                                                            Craniata; Ve Catarrhini;
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,. 4.7e+05;
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                            Zhao
y M.,

→ O Z.Y.,
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RESULTY
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Best Local
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Best Local
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Q15890;
01-NOV-1996 (TrEMBLrel. 01, Cr
01-NOV-1996 (TrEMBLrel. 01, La
01-AUG-1998 (TrEMBLrel. 07, La
(CLONE XP19G12A) (FRAGMENT).
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NON_TER
NON_TER
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MEDLINE=20196006; PubMed=10731132; Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Goca Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., George R.A., Lewis S.E., Richards S., Ashburner M., He Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Che
                                                                                                         Drosophila melanogaster (Fruit fly).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Inse
Pterygota; Neoptera; Endopterygota; Diptera; Brachycera;
                                                                                                                                                            Q9VRD2;
01-MAY-2000 (TrEMBLrel. 13,
01-MAY-2000 (TrEMBLrel. 13,
01-MAY-2000 (TrEMBLrel. 13,
                                                                                   Ephydroidea; Drc
NCBI_TaxID=7227;
                                                                                                                                                    CG11666 PROTEIN
                                                                                                                                                                                                                                                                                                                                                                                                   Caskey C.T.H.;
Hum. Mol. Genet. 0:0-0(0).
                                                      SEQUENCE FROM N.A. STRAIN-BERKELEY;
                                                                                                                                         CG11666
                                                                                                                                                                                                         Q9VRD2
                                                                                                                                                                                                                                                                                                                                                                                                                           Coolbaugh
                                                                                                                                                                                                                                                                                                                                                                                                                                               TISSUE=PLACENTA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens (Human)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NCBI_TaxID=9606;
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1; Conser
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(TrEMBLrel. 01, Last sequence update)
(TrEMBLrel. 07, Last annotation updat
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                                                                                                                                                                                                         PRELIMINARY;
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                                                                                                Drosophilidae;
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AAA73878.1;
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1068 MW;
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100.0%; Pr
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Pred. No.
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                                                                                                       Diptera;
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4.7e+05;
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4.7e+05;
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  Henderson Chen L.X.,
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RESULT
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RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
RA Abril J.F., Agbayani A., An H.-J., Andrews-Pfannkoch C., Baldwin D.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Barlova D., Boctchan M.R., Bouck J., Brokstein P., Bolshakov S.,
RA Borkova D., Boctchan M.R., Bouck J., Brokstein P., Brottier P.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davles P.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davles P.,
RA Cherry J.M., Cawley S., Dahlke C., Bayenport L.B., Davles P.,
RA Cherry J.M., Cawley S., Dahlke C., Bayenport L.B., Davles P.,
RA Cherry J.M., Cawley S., Dahlke C., Bayenport L.B., Davles P.,
RA Cherry J.M., Cawley L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Cherry J.M., Cawley L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Cherry J.M., Cawley L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Cherry J.M., Cawley L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Cherry J.M., Cawley L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Cherry J.M., Cawley L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Cherry J.M., Cawley L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Glock A., Gong F., Gorrell J.H., Gu Z., Gann P., Harris M.,
RA Glock A., Gong F., Gorrell J.H., Gu Z., Gann P., Harris M.,
RA Hurtis N.L., Harvey D., Helman T.J., Hernandez J.R., Houck J.,
RA Kimmcl B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Kimmcl B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Kimmcl B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Mount S.M., Moy M., Murphy B., Murphy L., Murphy J., Moshrefi A.,
RA Mount S.M., Moy M., Murphy B., Murphy L., Murphy J.M., Nelson D.L.,
RA McIncrt K., Renington K.S., Nixon K., Nusskern D.R., Pacleb J.M.,
RA Mullians S.M., Moy M., Murphy B., Murphy J.M., Nelson D.L.,
RA Mullians S.M., Moy M., Murphy B., Murphy J.M., Nelson D., Shen H.,
RA Murphy M., 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                 01-MAR-2001 (TrEMBLrel. 16, 01-MAR-2001 (TrEMBLrel. 16, 01-MAR-2001 (TrEMBLrel. 16, KININ-1 (PEA-K-1).
                                                     americana.";
Regul. Pept. 71:199-205(1997)
                                                                                                                                                                                                                                        Periplanèta americana (American cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blattoidea; Blattidae; Periplaneta.
                                                                                                                                                                                                                                                                                                                                                                       01-MAR-2001
                                                                                            retrocerebral complex
                                                                                                                                              TISSUE=CORPORA CARDIACA;
MEDLINE=98010462; PubMed=9350979;
                                                                                                                                                                                      SEQUENCE,
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                                                                                                           Predel R., Kellner R., Rapus J., Penzl
"Isolation and structural elucidation
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(MYOTROPIC ACTIVITY)
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Mation of eight kinins from
Periplanet, Periplanet
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Best Local
TISSUE-CORPORA CARDIACA;
TISSUE-CORPORA CARDIACA;
MEDLINE-98010462: PubMed-9350979;
MEDLINE-98010462: Rapus J., Penzlin H., Gaede G.;
Predel R., Kellner R., Rapus J., Penzlin H., Gaede G.;
"Isolation and structural elucidation of eight kinins from the structural elucidation of eight kinins from the structural control of the American cockroach, Periplaneta
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P82686; O1-MAR-2001 (TrEMBLrel. 16,
01-MAR-2001 (TrEMBLrel. 16,
01-MAR-2001 (TrEMBLrel. 16,
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01-MAR-2001 (TrEMBLrel. 16,
01-MAR-2001 (TrEMBLrel. 16,
01-MAR-2001 (TrEMBLrel. 16,
                                                                                                           Periplaneta americana (American cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Bla
Blattoidea; Blattidae; Periplaneta.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Predel R., Kellner R., Rapus J., Penzlin H., Gaede G., "Isolation and structural elucidation of eight kinins retrocerebral complex of the American cockroach, Perigamericana.";
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MEDLINE-98010462; PubMed-9350979;
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Eukaryota; Metazoa: Arthropoda; Tracheata; Hexapoda;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Bla
Blattoidea; Blattidae; Periplaneta.
                                                                         SEQUENCE, AND FUNCTION
                                                                                               NCBI_TaxID=6978
                                                                                                                                                            KININ-3 (PEA-K-3).
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MOD_RES 8 8
SEQUENCE 8 AA; 950 MW
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Regul. Pept. 71:199-205(1997).
                                                            Periplaneta americana (American cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blattoidea; Blattidae; Periplaneta.
NCBI_TaxID=6978;
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Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blattoidea; Blattidae; Periplaneta.
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IF SIMILARITY: BELONGS TO THE KININ FAMILY.

Neuropeptide; Amidation.

MOD_RES

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AMIDATION.
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Q9TRY3;
Q9TRY3;
Q9TRY3;
Q1-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAY-2000 (TrEMBLrel. 13, Last annotation update)
01-MAY-2000 (TrEMBLrel. 13, Last annotation update)
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01-MAY-2000 (TrEMBLREL 13, Last annotation update)
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01-JUL-1997 (TrEMBLrel. 04, Created)
01-JUL-1997 (TrEMBLrel. 04, Last sequence update)
01-MAY-1999 (TrEMBLrel. 10, Last annotation update)
PRO ALPHA 1 TYPE III COLLAGEN PROTEIN (FRAGMENT).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "Evidence for insufficient chondrocytic of full-thickness defects of articular construction and the second 
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Mammalia; Eutheria; Lagomorpha; Leporidae;
NCBI_TaxID=9986;
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                                                                                  Mammalia; Eutheria; NCBI_TaxID=9826;
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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-!- FUNCTION: MEDIATES VISCERAL MUSCLE CONTRACTILE ACTIVITY
                               SEQUENCE
                                                                                                                           Eukaryota; Metazoa;
Mammalia; Eutheria;
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-!- SIMILARITY: BELONGS TO THE KININ FAMILY.
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   MEDLINE=92049376;
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   PubMed=1719383,
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100.0%;
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C76365B449CDC775 CRC64;
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Pred. No.
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"Isolation and mo
protein-6.";
Mol. Endocrinol.
SEQUENCE 8 AA;
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01-FEB-1997
01-AUG-1998
GERMLINE DH
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Q95213;
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SEQUENCE
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01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation updat
MITOCHONDRIAL 28S RIBOSOMAL PROTEIN S34 (MRP-S34)
Bos taurus (Bovine).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrat
Mammalla; Eutheria; Cetartiodactyla; Ruminantia;
Bovinae; Bovinae; Bos.
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STRAIN-F-I/RGM;
Mage R.G., Chen H.T.,
Mol. Immunol. 0:0-0(0)
                                                                                                                                                                                                                             Eukaryota; Metuzoa; Chordata; C. Mammalia; Eutheria; Lagomorpha; NCBI_TaxID=9986;
                                                        EMBL; U62585; AAB18735.1;
                                                                                                                                                                                                                                                                                                                             Oryctolagus
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NON_TER
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d molecular cloning of
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ninantia; Pecora; Bovoidea
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MEDLINE-89354669; PubMed-2766382;

Jacobs H.T., Asakawa S., Araki T.,

"Conserved tRNA gene cluster in st.

Curr. Genet. 15:193-206(1989).

EMBL; X16886; CAA34767.1; -.
                                                                                                    Eukaryota; Metazoa; Echinodermata; Asteroidea; Valvatacea; Valvatida; NCBI_TaxID=7594;
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COI GENE PRODUCT (FRAGMENT).
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CYTOCHROME C OXIDASE SUBUNIT I (FRAGMENT).
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EMBL; AF092421; AAF03041.1; -.
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Search completed: January 14, 2002, 07:53:46 Job time: 726 sec	Qy 1 w 1 Db 6 w 6	Query Match 30.6%; Score 11; DB 8; Length 8; Best Local Similarity 100.0%; Pred. No. 4.7e+05; Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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36
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Prcd. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Claudin-7 cell adh	AAB06823	21	8	69.4	25	11
Claudin-1 cyclic c	AAB06479	21	8	69.4	25	10
Claudin-1 cell adh	AAB06419	21	8	69.4	25	9
Claudin-4 cyclic c	AAB06698	21	8	75.0	27	8
Claudin-4 cell adh	AAB06645	21	89	75.0	27	7
Claudin-3 cyclic c	AAB06636	21	8	75.0	27	ტ
Claudin-3 cell adh	AAB06583	21	8	75.0	27	Ç
Claudin-1 cyclic c	AAB06512	21	8	77.8	28	4
Claudin-1 cell adh	AAB06426	21	8	77.8	28	ω
Claudin-2 cyclic c	AAB06574	21	æ	80.6	29	ν
Claudin-2 cell adh	AAB06521	21	8	80.6	29	
Description	ID	DB	Query Match Length	Query	Score	Result
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	SUMMARIES					

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ALIGNMENTS

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RESULT ... AABO 6521 ID AABO 6521 ID AABO XX AABO XX Clau XX Clau XX Clau XX Clau KW Graf XX W Graf XX W Graf XX W Graf XX W Graf XX W Graf XX W Graf XX W Graf XX W Graf XX W Graf XX W Graf XX W Graf XX Gra
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claudin-2 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claudin-2 cell adhesion recognition sequence SEQ ID NO: 42
                                                 Blaschuck OW,
                                                                                                                                                                                                                                      03-NOV-1998;
30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28-SEP-2000 (first entry)
                                                                                                                                         (ADHE-) ADHEREX TECHNOLOGIES INC
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ب
                                                 Symonds JM,
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99US-0282029
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                                                 Gour BJ;
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WPI; 2000-365610/31

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The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-2 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      graft
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claudin-2 modulating agent;
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                                                                                                                     Claim 49; Page 98; 121pp; English.
                                                                                                                                                                   Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system
                                                                                                                                                                                                                                             Blaschuck OW,
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30-MAR-1999;
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99US-0282029
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Pred. No. 4.3e
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30-MAR-1999;
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                                                                                               Sequence
                                                                                                                                                                                                                   Claim 39; Page 96; 121pp; English.
                                                                                                                                                                                                                                                                                                         Blaschuck OW,
                                                                                                                                                                                                                                                                                                                                                                                   03-NOV-1999;
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99US-0282029
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                                                     77.8%;
50.0%;
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                                           Score 28; DB
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Pred. No. 4.3e
1; Mismatches
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                                                      4.3e+05;
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                                          Claudin-3 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
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                       graft rejection.
                                                                                                          Claudin-3 cell adhesion recognition sequence SEQ ID NO:
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30-MAR-1999;
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                                                        03-NOV-1998;
30-MAR-1999;
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 Blaschuck OW,
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                           (ADHE-) ADHEREX TECHNOLOGIES INC
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                            The present invention relates to the use of peptides as claudin-mediated ceil adhesion modulators. The claudin-4 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases
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      inflammatory diseases and cancer, and
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                                                                                                                                                                                                              58; Page 100; 121pp; English.
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99US-0282029.
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Pred. No. 4.3e
1; Mismatches
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4.3e+05;
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"herbas 4; Conserv
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-4 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin -  \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac
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30-MAR-1999;
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Best Local
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         Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection; cyclic.
                                                                                                                                                                                                                                                                                                       The present invention relates to the use of peptides as claudin-mediated coll adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound haeling and implant adhesion. In addition, they can also be used to facilitate drug delivery
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection.
                                                   Claudin-1 cyclic cell adhesion recognition sequence SEQ ID NO:
                                                                                                                   AAB06479 standard; peptide; 8 AA
                                                                                                                                                                                                                                                                                                                                                                                            Claim 39; Page 96; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           03-NOV-1998;
30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAB06419;
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                                                                                                                                                                                                                                                                         8 AA;
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37.5%;
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RESULT :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin - 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                                                                                               03-NOV-1998;
30-MAR-1999;
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30-MAR-1999;
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(ADHE-) ADHEREX TECHNOLOGIES INC
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                                                                                          98US-0185908.
99US-0282029.
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37.5%;
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Pred. No. 4.3e+05;
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Blaschuck OW,

Symonds JM,

Gour BJ

Antibody modulation of claudin-mediated cell adhevasopermiability, for delivering drugs to tumors and across the skin - $\,$

claudin-mediated cell adhesion for increasing delivering drugs to tumors and the nervous system

WPI;

2000-365610/31

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AAB06876
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Best Local :
The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-7 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-7 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 76; Page 104; 121pp; English.
                                                                                                                                                                             WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claudin-7 cyclic cell adhesion recognition sequence SEQ ID NO: 447
                                                                                             Claim 79; Page 105; 121pp;
                                                                                                                                    Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
                                                                                                                                                                                                          Blaschuck OW,
                                                                                                                                                                                                                                                             03-NOV-1998;
30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                     Mammalia
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                                                                                                                                                                                                        Symonds
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99US-0282029
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37.58;
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                                                                                              English.
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Pred. No.
2; Mismatc
                                                                                                                                                                                                                                                                                                                                                                                                                                      cell adhesion recognition sequence;
                                                                                                                                                                                                          Gour BJ
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Query Match

Best Local Similarity

69.4%;

Score Pred.

No.

DB 21; 4.3e+05;

Length

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RESULT 13
AAB06917
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Best Local
                               The present sequence is a peptide which can be used in a claudin-mediated cell adhesion modulator. The claudin group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and this peptide can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, it can also be used to facilitate drug delivery
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30-MAR-1999;
Sequence
                                                                                                                            Claim 77; Page 104; 121pp; English.
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                                                                                                                                                                                                                                                                                                         03-NOV-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claudin-7 modulating agent; cell adhesion recognition sequence
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                    to the desired target site.
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3; Conser
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     autoimmune disease; inflammatory disease;
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                                                                                                                                                                                                                        Symonds
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99US-0282029
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                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
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                                                                                                                                                      for delivering drugs to tumors and the nervous in - \,
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                   28-SEP-2000
                                                                                        AAB06572 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys and across the skin - \,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claudin-2 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection.
                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 46; Page 97; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2000-365610/31.
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99US-0282029
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                                                                                        peptide;
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50.0%;
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Pred. No. 4.3e+05;
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Query Match
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Matches 3
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03-NOV-1999;
                                                                                                                                                                             graft rejection
                                                                                                                                                                                                                       Claudin-2 modulating agent; cell adhesion recognition sequence;
                                                                                                                                                                                                                                                                   Claudin-2 cell adhesion recognition sequence SEQ ID
                                                                                                                                                                                                                                                                                                                                                              AAB06520;
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30-MAR-1999;
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                                            11-MAY-2000.
                                                                                      WO200026360-A1
                                                                                                                                   Mammalia
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                                                                                                                                                                                                  sequence; autoimmune disease; inflammatory disease;
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99WO-CA01029
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99US-0282029.
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                                                                                                                                                                                                                                                                                                                entry)
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50.0%;
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4.3e+05;
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RESULT 1
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                        Claim 49; Page
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claudin-2 modulating agent; cell adhesion recognition sequence;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claudin-2 cyclic cell adhesion recognition sequence SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAB06573 standard;
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30-MAR-1999;
                                                                             and across
                                                                                                   Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
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30-MAR-1999;
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                                                                             skin
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99US-0282029.
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99US-0282029
                        98; 121pp; English
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Pred. No. 4.3e+05;
1; Mismatches 2
                                                                                                      drugs to tumors and the nervous system
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RESULT 1
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Best Local
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                                        The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-2 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claudin-2 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
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30-MAR-1999;
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1 wrtssy 6
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99US-0282029
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Pred. No. 4.3e+05;
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Query Match

66.7%;

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RESULT 20
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Best Local :
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             AAB06546;
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                                      AAB06546 standard; peptide; 8 AA
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30-MAR-1999;
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3; Conservative
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99US-0282029.
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1; Mismatches 2;
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                                                                                                                                                                                                            Claudin-2 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
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                                                                                                                                                                                                                                                                                           Claudin-2 cyclic cell adhesion recognition sequence SEQ ID NO: 144.
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                                                                                                                                                                                                                                                                                                                                                                                                          AAB06555;
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30-MAR-1999;
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vasopermiability, for delivering drugs to tumors and the nervous system and across the {\tt skin} -
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30-MAR-1999;
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30-MAR-1999;
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Pred. No. 4.3e+05;
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                         The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-6 and claudin-9 groups of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site.
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vasopermiability, to
                                                                                                                                                                  Claim 70; Page 103; 121pp; English.
                                                                                                                                                                                                    Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin -
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30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-6 and claudin-9 groups of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present
                       AAB06916 standard; Protein; 8 AA.
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30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claudin-6/9 cyclic cell adhesion recognition sequence SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 73; Page 104; 121pp; English.
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99US-0282029
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Pred. No. 4.3e+05;
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                                                                                                                                                                                                                                                                                                                      Claim 71; Page 103; 121pp; English.
                                                                                                                                                                                Sequence
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30-MAR-1999;
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99US-0282029.
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Copyright (c) 1993 - 2000 Comp
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US-08-350-260A-464
US-09-120-880-44
US-09-120-880-488-29
US-08-428-488-89
US-08-428-488-87
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US-08-335-733D-24

US-08-335-733D-24

US-08-190-802A-263

US-08-477-346-263

US-09-196-934-16

US-08-089-994A-12

US-08-089-994A-12

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                                   US-08-338-890B-2
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44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	47.2						47.2		47.2		47.2
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US-08-222-851-22	US-08-256-771-16	US-08-215-137-11	US-08-190-802A-265	US-08-165-545-7	PCT-US95-11724-27	US-08-767-903-27	US-08-871-163-27	US-08-381-984-17	US-08-256-771-17	US-08-305-768-27	US-08-165-545-8	US-08-428-488-107	US-08-428-488-106	US-08-428-488-105	US-08-428-488-104	US-08-428-488-88	US-08-428-488-86	US-08-428-488-85	US-08-428-488-84	US-08-428-488-83	US-08-997-263-3	US-08-997-263-2
Sequence 22, Appl	Sequence 16, Appl	Sequence 11, Appl	Sequence 265, App	Sequence 7, Appli	Sequence 27, Appl	Sequence 27, Appl		Sequence 17, Appl	Sequence 17, Appl	Sequence 27, Appl	Sequence 8, Appli	Sequence 107, App	Sequence 106, App	Sequence 105, App	Sequence 104, App	•	•	Sequence 85, Appl	Sequence 84, Appl	Sequence 83, Appl	Sequence 3, Appli	Sequence 2, Appli

ALIGNMENTS

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US-08-335-733D-23

; Sequence 23, Application US/08335733D

; Patent No. 6042831

; GENERAL INFORMATION:
                                                                                                           INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 amino acids
                                                                                                                                                                                  ATTORNEY/AGENT INFORMATION:
NAME: MacLeod, Janet M
REGISTRATION UNMBER: 35,263
REFERENCE/DOCKET NUMBER: A299
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-408-2500
TELEFAX: 212-765-2519
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: per
HYPOTHETICAL: NO
ANTI-SENSE: NO
                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US/0 FILING DATE: 10-NOV-1994 CLASSIFICATION: 435 PRIOR APPLICATION DATA: APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY: U.S.A.
ZIP: 10112-0228
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                            OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Beretta, Alberto
TITLE OF INVENTION: IMMUNOLOGICALLY HOMO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STREET:
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                                                                                            amino acid
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                                                       linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IBM Compatible
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                                      peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IMMUNOLOGICALLY HOMOLOGOUS TO HLA
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US-08-335-733D-24
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Matches
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GENERAL INFORMATION:
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Best Local
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                                                                            Query Match
                                                                                                                                                                                                                              INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 amino acids
                                                                                                                              HYPOTHETICAL: NO ANTI-SENSE: NO FRAGMENT TYPE: i ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                              NAME: MacLeod, Janet M
REGISTRATION NUMBER: 35,263
REFERENCE/DOCKET NUMBER: A2:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-08-2500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FRAGMENT TYPE: ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                     FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: MacLeod, Janet M
                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: 10-NOV-CLASSIFICATION: 435
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/335
ETITIC DATE: 10.NUV.1004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STREET:
                                                                                                                                                                                                                                                                          TELEPHONE: 212-765-2519
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OPERATING SYSTEM:
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                                                  Local Similarity les 3; Conserv
                                                                                                                                                                                                         STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY:
                                                                                                                                                                                              TOPOLOGY:
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                       wrxxay 6
WRSELY 7
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10112-0228
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3; Conservative
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                                                                                                                                                                                                                      amino acid
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VENTION: HIV PROTEIN EPITOPES
VENTION: IMMUNOLOGICALLY HOMOLOGOUS TO HLA
                                                   Conservative
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                                                                                                                                                                                               linear
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                                                                                                                                                                               peptide
                                                              50.0%;
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                                                  Score 21; DB Pred. No. 1.600; Mismatches
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Pred. No. 1.60
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                                              DB ,
1.6e+05;
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RESULT 4
US-08-190-802A-263
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Best Local Similarity
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                                                                                                                                  Sequence 263, Application US/08190802A Patent No. 5519003 GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 8 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: 10-NOV-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/335,733D
                                             NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
                                                                        APPLICANT: Mochly-Rosen, Daria
APPLICANT: Ron, Dorit
TITLE OF INVENTION: WD-40 - Derived Peptides and Uses
TITLE OF INVENTION: Thereof
                                                                                                                                                                                                                                                                                                                                                                                                     ANTI-SENSE: NO FRAGMENT TYPE: ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                  MOLECCE: NO
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATTORNEY/AGENT INFORMATION:
NAME: MacLeod, Janet M
REGISTRATION NUMBER: 35,263
REFERENCE/DOCKET NUMBER: A29
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SOFTWARE: FastSEQ Versi
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US,
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ZIP: 10112-0228
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
ADDRESSEE: Baker & E
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                STREET:
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                              ADDRESSEE:
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Palo Alto
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              E: Dehlinger & Associates
P.O. Box 60850
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30 Rockefeller Plaza
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IBM Compatible
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                                                                                                                                                                                                                                                                                                                                                                                                                       internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Alberto
HIV PROTEIN EPITOPES
IMMUNOLOGICALLY HOMOLOGOUS TO HLA
                                                                                                                                                                                                                                                                                                                           58.3%;
50.0%;
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Pred. No. 1.6e+05;
                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                           Length 8;
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Best Local Similarity
Thes 3; Conserve
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                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 263, Application US/U84///
Patent No. 6262033
GENERAL INFORMATION:
APPLICANT: Mochly-Rosen, Daria
APPLICANT: Ron, Dorit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 3
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Fablan, Gary R.
REGISTRATION NUMBER: 33,875
REFERENCE/DOCKET NUMBER: 8600
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC COMPAS-DOS
SOFTMARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/190,802A
FILING DATE: 01-FEB-1994
FILING DATE: 01-FEB-1994
                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: WD-40 - Derived Peptides and Uses TITLE OF INVENTION: Thereof NUMBER OF SEQUENCES: 265
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE:
HYPOTHETICAL: '
ANTI-SENSE: NO
ATTORNEY/AGENT INFORMATION:
                CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/4:
FILING DATE: 07-JUN-1995
                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                COUNTRY: USA
ZIP: 20006-1812
                                                                                                                                                                                                                                                                                    STREET: 2000 Peni
CITY: Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: amino acid
STRANDEDNESS: sir
                                                                                         APPLICATION NUMBER: FILING DATE: 07-JUI
                                                                                                                                                                                                                                                                                                     ADDRESSEE: Morrison & Foerster STREET: 2000 Pennsylvania Avenue, NW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 WRTAA 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    , Gary R.
, Gary R.
33,875
                                                                                       07-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   single
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                                   08/487,072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WRTAA peptide
                                                                                                       US/08/477,346
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Pred. No. 1.6e+05;
0; Mismatches 2;
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US-08-089-994A-12
; Sequence 12, Application US/08089994A
; Patent No. 5380668
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                                                                                                                                                                                                                                                                                                                                                                                                                        ; OTHER INFORMATION: Description of Artificial Sequence:Synthetic us\hbox{-}09\hbox{-}196\hbox{-}934\hbox{-}16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-196-934-16
; Sequence 16, Appli
; Patent No. 6191256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-08-477-346-263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/09/196,934
CURRENT FILING DATE: 1998-11-20
NUMBER OF SEQ ID NOS: 22
SOFTWARE: PATENTIN Ver. 2.0
SEQ ID NO 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local
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Matches 3; Conserv
                                                                                                                                        Patent No. 5380668
GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Chen, Li Ang
APPLICANT: Beuttner, Joseph A.
APPLICANT: Carbonell, Ruben G.
TITLE OF INVENTION: Recombinant Factor VIII Binding Peptides
FILE REFERENCE: MSB-7251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: (202) 887-0763 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ANTI-SENSE: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: WRTAA peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REGISTRATION NUMBER: 29,959
REFERENCE/DOCKET NUMBER: 25:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500
                                               NUMBER OF SEQUENCES:
                                                                                     APPLICANT: Herron, James N. TITLE OF INVENTION: Compounds Having the Antigenicity of TITLE OF INVENTION: hCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: peptide HYPOTHETICAL: YES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
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nes 3; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: amino acid
STRANDEDNESS: sir
                ADDRESSEE: University of Utah Technology ADDRESSEE: Transfer Office
                                                                                                                                                                                                                                                                1 WRRHRY 6
                                                                                                                                                                                                                                                                                                1 wrxxay 6
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421 Wakara Way, Suite 170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
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Pred. No. 1.6e+05;
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Pred. No. 1.6e+05;
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                                                                                                                                                                                                                                                                                                                                     Mismatches
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COUNTRY:

USA

Salt Lake City

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INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
LENGTH: 6 amino **'
TYPE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 8, Application US/08907403A Patent No. 6013633 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
               CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/1
APPLICATION NUMBER: US/08/1
FILING DATE: 07-AUG-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/023
FILING DATE: 09-AUG-1996
                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Balasubramanium, Ambikaipakan
APPLICANT: Chance, William T.
TITLE OF INVENTION: Compounds For Control
TITLE OF INVENTION: Of Appetite, Blood Pressure, Cardiovascular
TITLE OF INVENTION: Response, Libido, And Circadian Rhythm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch,144Mb storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION: 530 PRIOR APPLICATION NUMBER:
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APPLICATION NUMBER: US
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELECOMMUNICATION INFORMATION: TELEPHONE: 801/532-1922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE:
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity 60.0%; tes 3; Conservation
                                                                                                                                                                                        MEDIUM TYPE: Diskette, 3.50 inch, MEDIUM TYPE: 1.44 MB storage COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                        STREET: 441 Vine CITY: Cincinnati
                                                                                                                                                                       OPERATING SYSTEM:
                                                                                                                                                                                                                                                                   COUNTRY: USA
ZIP: 45202-2917
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: Turner, Allen C
REGISTRATION NUMBER:
                                                                                                                                                     SOFTWARE: Microsoft Word
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: amino acid TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: WORD PERFECT
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                                                                                                                                                                                                                                                                                                                                            441 Vine Street
                                                                                                                                                                                      IBM Compatible
                                                                                                                                                                                                                                                                                                                                                              Wood, Herron & Evans, L.L.P
                                                                                                                                                                     Windows 95
                                     60/023,588
                                                                                                            US/08/907,403A
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Pred. No. 1.6e+05;
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RESULT 9
PCT-US94-07605-12
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PCT-US94-07605-12
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                                                                               TELEX: 388961 1PM04UT INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEPHONE: (513) 241-2324
TELEFAX: (513) 421-7269
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                          CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/08
AFILING DATE: 6 Jul 1993
ATTORNEY/AGENT INFORMATION:
NAME: TILING ALLOW
                                                                                                              REFERENCE/DOCKET NUMBER: 22
TELECOMMUNICATION INFORMATION:
TELEPHONE: 801/532-19168
TELEPAX: 801/531-9168
                                                                                                                                                                                                                                                                                                                            COMPUTER: IBM PC compat
OPERATING SYSTEM: PC-DC
SOFTWARE: WORD PERFECT
CURRENT APPLICATION DATA:
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REFERENCE/DOKET NUMBER: UCC-11
TELECOMMUNICATION INFORMATION:
                                                               SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES: 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION: COM
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                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: PCT/US94/07605 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: UZIP: 84108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADDRESSEE: University of Utah Technology ADDRESSEE: Transfer Office STREET: 421 Wakara Way, Suite 170 CITY: Salt Lake City
                                                                                                            TELEFAX:
                                                                                                                                                                              NAME: Turner, Allen C
REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRANDEDNESS:
                 TOPOLOGY:
                                              LENGTH:
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                                            6 amino acids
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               linear
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SYSTEM: PC-DOS/MS-DOS
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50.0%;
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Pred. No. 1.6e+05;
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Query Match
Best Local Similarity

52.8%; 60.0%;

Score 19; DB 5; Pred. No. 1.6e+05;

SHIRAKUMI, Yoshifumi

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RESULT 11
US-08-463-230A-5
: Sequence 5, Application US/08463230A
: Patent No. 5827498
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US-08-463-230A-4
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Best Local Similarity

Matches 4; Conserv
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GENERAL INFORMATION:
APPLICANT: SEKI,
APPLICANT: ITAYA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 148655,
APPLICATION NUMBER: JP 148655,
APPLICATION NUMBER: JP 148655,
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APPLICA
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TELEX: 236687
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: SHIRAKUMI, ICOMPANDE APPLICANT: WASHINO, TOMOR AFFINITY PEPTIDE, AND RADIOACTIVE TITLE OF INVENTION: DIAGNOSTIC AGENT AND RADIOACTIVE THERAPEUTIC AGENT TITLE OF INVENTION: CONTAINING THE PEPTIDE

"""" OF SEQUENCES: 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRANDEDNESS:
TOPOLOGY: not
MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER: 5803/0B212
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 527-7663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION DATA:
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CITY: New York
STATE: New York
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ZIP: 10022
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: amino acid
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805 Third Avenue
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SEKI, Ikuya
ITAYA, Yoshitoshi
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not relevant
E: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   52.8%;
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Pred. No. 1.6e+05;
0; Mismatches 3;
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                                                                                                                                                                                                                                                                                           Sequence 3, Application US/08633760 Patent No. 5804429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 4; Conserv
                                                                                                                                             GENERAL INFORMATION:
APPLICANT: NIWA, MINEO
APPLICANT: SAITO, YOSHIMASA
APPLICANT: FUJIMURA, TAKAO
APPLICANT: ISHII, YOSHINORI
APPLICANT: NOGUCHI, YUJI
TITLE OF INVENTION: A NEW CEPHALOSPORIN C ACYLASE
NUMBER OF SEQUENCES: 64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATTORNAL RYAN, Charles 19,013
REGISTRATION NUMBER: 39,013
REFERENCE/COCKET NUMBER: 5803,
TELECOMMUNICATION INFORMATION:
"""" 757-7663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEFAX: (212) 753-6237
TELEX: 236687
INFORMATION FOR SEQ ID NO:
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APPLICANT: WASHINO, KOME1
TITLE OF INVENTION: TUMOR
TITLE OF INVENTION: CONTAI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTORNEY/AGENT INFORMATION:
NAME: Ryan, Charles S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 148655/94
FILING DATE: 07-JUN-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION DATA:
APPLICATION NUMBER: US,
FILING DATE: 05-JUN-199
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MEDIUM TYPE: Floppy disk
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COMPUTER READABLE FORM:
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                                                                                                                                     CORRESPONDENCE ADDRESS:
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
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CITY: New York
STATE: New Yor
                                             STREET: 1755 JEI
CITY: ARLINGTON
STATE: VIRGINIA
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STRANDEDNESS: not
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                              COUNTRY:
                                                                                               ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, ADDRESSEE: P.C.
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57.1%;
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Pred. No. 1.
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MEDIUM TYPE:

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Best Local Similarity
Matches 3; Conserv
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TELEFAX: (703) 413-2220
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
ADDRESSE: David W. Clough
STREET: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
                                                   FILING DATE: 05-DEC-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9110549.4
FILING DATE: 15-MAY-1991
                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATTORNEY/AGENT INFORMATION:
NAME: OBLON, NORMAN F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 18
TELECOMMUNICATION INFORMATION:
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SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                  PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: Methods for producing members of specific TITLE OF INVENTION: binding pairs NUMBER OF SEQUENCES: 602
                                                                                                                                                               SOFTWARE: Patentin Rel-
CURRENT APPLICATION DATA:
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                                                                                                                            APPLICATION NUMBER: FILING DATE: 05-DEC
                                                                                                                                                                                               COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 8 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
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Illinois
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                                                                                                                                                                                PatentIn Release #1.0, Version #1.25 (EPO)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Smith, Andrew John Hammond
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Johnson, Kevin Stuart
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Nissim, Ahuva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Waterhouse, Peter
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JMBER: GB 9206318.9
24-MAR-1992
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, 1.6e+05;
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Qy
                                        Query Match
Best Local Similarity
Thes 3; Conserv
                                                                                                                                                                                                                                                    ; TYPE: PRT; ORGANISM: NO. US-09-020-880-44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Genentech, Inc.
APPLICANT: Ballinger, Marcus D.
APPLICANT: Ballinger, Marcus D.
APPLICANT: Ballinger, Marcus D.
APPLICANT: Fairbrother, Mayne J.
APPLICANT: Fairbrother, Mayne J.
APPLICANT: Wells, James A.
TITLE OF INVENTION: HEREGULIN VARIANTS
FILE REFERENCE: 14918-720CON1
CURRENT APPLICATION NUMBER: US/09/020,880A
CURRENT FILING DATE: 1998-02-09
EARLIER APPLICATION NUMBER: US 60/037,581
EARLIER APPLICATION DATE: 1997-02-10
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                                                                                                                                                                                                                                                                                                                                                           SEQ ID NO 44
LENGTH: 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: FastSEQ for Windows Version 3.0
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TELEPHONE: 312-474-6300
INFORMATION FOR SEQ ID NO: 464:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQ ID NOS:
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ATTORNEY/AGENT INFORMATION:
NAME: Clough, David W
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
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APPLICATION NUMBER:
FILING DATE: 31-MAR-
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APPLICATION NUMBER:
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PRIOR APPLICATION DATA:
APPLICATION NUMBER:
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REGISTRATION NUMBER: 36
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: amino acid
STRANDEDNESS: si
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wrxxa 5
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                                                                            Conservative
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50.0%;
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Pred. No. 1.6e+05;
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                                                                                                             Score 18; DB 4;
Pred. No. 1.6e+05;
                                                                            Mismatches
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                                                                                                                                          Length 5;
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APPLICANT: BODOR, NICHOLAS S.
TITLE OF INVENTION: BRAIN-ENHANCED DELIVERY OF NEUROACTIVE
TITLE OF INVENTION: PEPTIDES BY SEQUENTIAL METABOLISM
NUMBER OF SEQUENCES: 107
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Ruoslahti, Erkki
APPLICANT: Pasqualini, Rena
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NAME: Baumeister, Mary Katherine REGISTRATION NUMBER: 26,254
REFERENCE/DOCKET NUMBER: 028724-0
TELECOMMUNICATION INFORMATION: TELEPHONE: (703) 836-6620
TELEFAX: (703) 836-2021
INFORMATION FOR SEQ ID NO: 29:
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MEDIUM TYPE: Floppy disk
COMPUTE: IHM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/428,488
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hos 3; Conserv
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CITY: Alexandria
STATE: Virginia
                                                                                                                                                                            FILING DATE: 27-APR
CLASSIFICATION: 514
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Pred. No. 1.6e+05;
"'~matches 2;
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; LOCATION: 6
; OTHER INFORMATION:
US-08-428-488-79
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Best Local Similarity
Thes 3; Conserve
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                                                                                                                                                                                                                                                                                                  TELEFAX: (703) 836-2021 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/428,488
FILING DATE: 27-APR-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                               REFERENCE/DOCKET NUMBER: 02
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 836-6620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: BODOR, I
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                               FEATURE:
                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
LENGTH: 6 amino acids
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                                                                                                                            FEATURE:
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STRANDEDNESS: si
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                             NAME: Baumeister, Mary Katherine REGISTRATION NUMBER: 26,254
                                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STREET: P.O. Box
CITY: Alexandria
STATE: Virginia
                                                                              OTHER INFORMATION:
                                                                                                                                        OTHER INFORMATION:
                                                                                                                                                        NAME/KEY: Modified-site LOCATION: 1
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                                                                                           LOCATION:
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STRANDEDNESS: sir
                                             NAME/KEY:
                                                                                                            NAME/KEY: Modified-site
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VENTION: BRAIN-ENHANCED DELIVERY OF NEUROACTIVE
VENTION: PEPTIDES BY SEQUENTIAL METABOLISM
                                  Modified-site
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linear
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75.08;
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                /note=
                                                                           /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
                                                                                                                                                                                                                                                                                                                                                                028724-087
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 17; DB 1;
Pred. No. 1.6e+05;
                "Position
                                                                              "Position
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                6
                                                                              D-Ala."
                D-Leu-Cholesteryl ester."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
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Query Match Best Local Similarity

47.2%; 75.0%;

Score Pred.

17; No.

DB 1; 1.6e+05;

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RESULT 19
US-08-428-488-81
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                                                                                    ΩV
                                                                                                                                                                                     ; LOCATION: 6
; OTHER INFORMATION: /note= "Position 6 = D-Leu-Cholesteryl ester."
US-08-428-488-80
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US-08-428-488-80
                                                                                                                Matches
                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 80, Appli
Patent No. 5624894
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: (703) 836-20 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME: Baumeister, Mary Katherine REGISTRATION NUMBER: 26,254
REFERENCE/DOCKET NUMBER: 028724-(
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: PatentIn Release #1.0, Version CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATTORNEY/AGENT INFORMATION: NAME: Baumeister, Mary K
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                             FEATURE:
                                                                                                                                                                                                                                                                                                     FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                            FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: FILING DATE: 27-APF CLASSIFICATION: 514
                                                                                                                Local Similarity
nes 3; Conserv
                                                                                                                                                                                                                                                          OTHER INFORMATION: /note=
                                                                                                                                                                                                                                                                                                                   OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 6 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                            NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STREET: P.O. Box
CITY: Alexandria
                                                                                                                                                                                                                                                                                        NAME/KEY:
                                                                                                                                                                                                                                                                                                                                            LOCATION:
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                                                         1 AYAG
                                                                                    5 ayxg 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Application US/08428488
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          E: Burns, Doa
P.O. Box 1404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 United States
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BODOR,
                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                            Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         E: Floppy disk
IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                                                                                                                                        Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                     linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (703) 836-6620
                                                                                                                                                                                                                                                                                                                                                                                     peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    27-APR-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     836-2021
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BRAIN-ENHANCED DELIVERY OF NEUROACTIVE

PEPTIDES BY SEQUENTIAL METABOLISM
                                                                                                                              47.28;
75.08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Doane, Swecker & Mathis
                                                                                                                                                                                                                                                                                                                /note= "Position 1 = trigonelly1-Ala
methylsulfate."
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                                                                                                                Score 17; DB 1; Pred. No. 1.6e+05; 0; Mismatches 1
                                                                                                                                                                                                                                                            "Position 3 = D-Ala."
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                                                                                                                                         Length 6;
                                                                                                                 Indels
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                                                                                                                0;
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                                                                                                                Gaps
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                                                                                                                0;
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                                                                                                                                                          RESULT
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                          CORRESPONDENCE ADDRESS:
             ADDRESSEE:
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US-08-428-488-87
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; OTHER INFORMATION:
US-08-428-488-81
GENERAL INFORMATION:
APPLICANT: BODOR, NI
TITLE OF INVENTION: I
TITLE OF INVENTION: I
NUMBER OF SEQUENCES:
                                                                                    Sequence 87, Application US/08428488 Patent No. 5624894
                                                                                                                                                                                                                                                                           Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 81, Application US/08428488 Patent No. 5624894
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX: (703) 836-2021 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/428,488
FILING DATE: 27-APR-1995
CLASSLFICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELECOMMUNICATION INFORMATION: TELEPHONE: (703) 836-6620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
NAME: Baumeister, Mary Katherine
REGISTRATION NUMBER: 26,254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC compatible operating System: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                         Local Similarity
nes 3; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                               OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OTHER INFORMATION: /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY:
LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY: lir
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STATE:
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                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY: Modified-site
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                                                                                                                                                                                          1 AYAG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Virginia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              E: Burns, Doane, Swecker & Mathis P.O. Box 1404
               BODOR, Nicholas S.

VENTION: BRAIN-ENHANCED DELIVERY OF NEUROACTIVE

VENTION: PEPTIDES BY SEQUENTIAL METABOLISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6 amino acids
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MICholas S.

VENTION: BRAIN-ENHANCED DELIVERY OF NEUROACTIVE
VENTION: PEPTIDES BY SEQUENTIAL METABOLISM
                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   single
                                                                                                                                                                                                                                                                         47.2%;
75.0%;
                                                                                                                                                                                                                                                                                                                                                            /note= "Position 6
                                                                                                                                                                                                                                                                                                                                                                                                                               /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     81:
                                                                                                                                                                                                                                                             0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        028724-087
                                                                                                                                                                                                                                                                           Score 17; DB 1;
Pred. No. 1.6e+05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Position 1 = 1,4-Dihydrotrigonellyl-Ala."
                                                                                                                                                                                                                                                                                                                                                                                                                                 "Position 3 =
                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                              D-Leu-Cholesteryl ester
                                                                                                                                                                                                                                                                                                                                                                                                                                 D-Ala."
                                                                                                                                                                                                                                                                                           Length
                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                             0;
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Burns, Doane, D. Box 1404

Swecker & Mathis

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US-08-428-488-89
; Sequence 89, Application US/08428488
; Patent No. 5624894
; GENERAL INFORMATION:
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; LOCATION: 6
OTHER INFORMATION: /noter "Position 6 = D-Leu-OH."
US-08-428-488-87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
Thes 3; Conservi
                                                                                                                                                                                                                                                                                                                                                                                  RESULT
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ZIP: 22313-1404
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 836-6620
TELEPAX: (703) 836-2021
TELEPAX: (703) 836-2021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: PATENTIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/428,488
FILING DATE: 27-APR-1995
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
COMPUTER READABLE FORM:
MEDIUM TYPE: Flappy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin kclease #1.0, Version #1.25
                                                                                                                                                                                                          NUMBER OF SEQUENCES: 1: CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                         TITLE OF INVENTION: BRAIN-ENHANCED DELIVERY OF NEUROA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
LENGTH: 6 amino acids
                                                                                                                                                                                                                                                                                     APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: linear MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURE:
                                                                                                                                   STREET: P.O. Box
CITY: Alexandria
STATE: Virginia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION: /note: "Positio OTHER INFORMATION: methylsulfate."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: amino acid
STRANDEDNESS: sir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: Baumeister, Mary Katherine REGISTRATION NUMBER: 26,254 REFERENCE/DOCKET NUMBER: 028724-087
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CITY: Alexandria
STATE: Virginia
                                                                                                COUNTRY: United States ZIP: 22313-1404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: Modified-site LOCATION: 3
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                                                                                                                                                                                       ADDRESSEE:
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                                                                                                                                                                       E: Burns, Doane, Swecker & Mathis P.O. Box 1404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6 amino acids
                                                                                                                                                                                                                                                            BODOR, Nicholas S.
VENTION: BRAIN-ENHANCED DELIVERY OF NEUROACTIVE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SS: single
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75.0%;
                                                                                                                                                                                                                               107
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 17; DB 1;
Pred. No. 1.6e+05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "Position 3 - D-Ala."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 6;
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                                                                                                                                                                                                                                                                                                                                                                                                                                               sequence 90, Application US/08428488 Patent No. 5624894 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity
Matches 3; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: (703) 836-2021 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/428,488
FILING DATE: 27-APR-1995
                              CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Baumeister, Mary Katherine
REGISTRATION NUMBER: 26,254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE/DOCKET NUMBER: 02
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 836-6620
                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: BODOR, NICHOLAS S.
TITLE OF INVENTION: BRAIN-ENHANCED DELIVERY OF NEUROACTIVE
TITLE OF INVENTION: PEPTIDES BY SEQUENTIAL METABOLISM
NUMBER OF SEQUENCES: 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
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REFERENCE/DOCKET NUMBER: 02
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LOCATION: 3
OTHER INFORMATION: /note= "Position
                                                                                                                                                                                                                                                                                                    STREET: P.O. Box
CITY: Alexandria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LOCATION: 6
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OTHER INFORMATION: /note= "Position 1 = Trigonelly1-Ala OTHER INFORMATION: methylsulfate."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: amino acid
STRANDEDNESS: sin
                                                                                                                                                                                                                                                     COUNTRY: United States ZIP: 22313-1404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: Modified-site
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: Modified-site
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                                                                                                                                                                                                                                                                                        Virginia
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Pred. No. 1.6e+05;
0; Mismatches 1
               028724-087
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US-08-428-488-91; Sequence 91, Applicat: Patent No. 5624894; GENERAL INFORMATION:
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Best Local Similarity
Thes 3; Conserv.
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; OTHER INFORMATION: /note=
US-08-428-488-90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                  INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/428,488
FILING DATE: 27-APR-1995
CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURE:
FEATURE
                                                                                  SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                 CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
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              MOLECULE TYPE:
                                                                                                                                         TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                       STREET: F...
CITY: Alexandria
''irginia
                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION:
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                                                                                                                                                                                                                                                                OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version
                                                                                                                                                                  NAME: Baumeister, Mary Katherine REGISTRATION NUMBER: 26,254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OTHER INFORMATION: /note=
                                         TYPE: amino acid
STRANDEDNESS: sin
                                                                                                                           TELEPHONE:
                                                                                                                                                           REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                           COUNTRY:
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5624894
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VENTION: BRAIN-ENHANCED DELIVERY OF NEUROACTIVE
VENTION: PEPTIDES BY SEQUENTIAL METABOLISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
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linear
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                             linear
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                                                                                                                             (703) 836-6620
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             peptide
                                        single
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75.0%;
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Pred. No.
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1.6e+05;
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; LOCATION: 6
; OTHER INFORMATION:
US-08-428-488-91
US-08-338-890B-2
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US-08-338-890B-2
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Best Local Similarity
"hes 3; Conservations"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
                                                                                                                                                              TELEFAX: (215)568-3439
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 6 amino acids
           NAME/KEY: Modified-site
LOCATION: 2-3, Xaa at Line 72
COTHER INFORMATION: /label=prote
OTHER INFORMATION: support can
OTHER INFORMATION: amino group"
                                                                                                                                                                                                                                     REGISTRATION NUMBER: 38,788
REFERENCE/DOCKET NUMBER: UP
TELECOMMUNICATION INFORMATION:
                                                                                                       FEATURE:
                                                                                                                    MOLECULE TYPE:
                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
NAME: Malinoski, Lynn
                                                                                                                                                                                                                                                                                                                                                              SOFTWARE: WORDPERFECT : CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
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NAME/KEY:
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                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/08/
FILING DATE: NOV. 14, 1994
CLASSIFICATION: 530
                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS/WINDOWS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STREET: One Liberty CITY: Philadelphia
                                                                                                                                     TOPOLOGY:
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                                                                                                                                                                                                          (215)568-3100
(215)568-3439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Nutt, Ruth
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Spanevello,
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75.0%;
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           /label=protecting1
/notes-"an amine protecting
support can be present or al
amino group", Xaa=Orn
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Rolando
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Pred. No.
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Query Match

47.2%;

Score 17;

DB

1;

Length

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COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

COMPUTER: IBM PC compatible

OPERATING SYSTEM: MS-DOS/WINDOWS

SOFTWARE: WORDDERFECT SAVED AS ASCII (DOS) TEXT(*.*)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/338,890B

FILING DATE: NOV, 14, 1994

CLASSIFICATION: 530

ATTORNEY/AGENT INFORMATION:

NAME: Mallnoski, Lynn

REGISTRATION NUMBER: 38,788

REFERENCE/DOCKET NUMBER: UPN-2040

TELECOMMUNICATION: WFORMATION:

TELEPHONE: (215)568-3100

TELECHONE: (215)568-3109

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 6

TYPE: amino acid

TOPOLOGY: linear

POLECULE TYPE: peptide
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US-08-338-890B-3
; Sequence 3, Application US/08338890B
; Patent No. 5700905
; CENERAL INFORMATION:
   APPLICANT: Hirschmann, Raiph
   APPLICANT: Spanevello, Rolando
   APPLICANT: Nutt, Ruth
   TITLE OF INVENTION: Synthetic Somatostatin Mimics
   NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
   ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz and No. 5700905ris
   STREET: One Liberty Place, 46th Floor
   CITY: Philadelphia
   STATE: PA
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                                                                                Query Match
Best Local Similarity
Matches 3; Conserv
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LOCATION: 1-3
OTHER INFORMATION: /label
OTHER INFORMATION: /notee
OTHER INFORMATION: suppor
OTHER INFORMATION: amino
                                                                                                                                                                                                   NAME/KEY: modified-site
LOCATION: 6, Xaa at line 100
OTHER INFORMATION: /label-protecting2
OTHER INFORMATION: /note- "a carboxyl protecting group can be
OTHER INFORMATION: present or absent on the hydroxyl group", Xaa-Orn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY: US
ZIP: 19103
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                                                                                47.2%; Score 17; DB 1; L4 50.0%; Pred. No. 1.6e+05; Live 1; Mismatches 2;
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/note-"an amine protecting group or a solid support can be present or absent on the primary amino group", Xaa: -Orn
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1; Mismatches 2;
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Search completed: January 14, 2002, 07:41:37 Job time: 458 sec

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Minimum DB
Maximum DB
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tubulin beta-3 cha	ν	. 4	11	44
180K excantigen -	2	4	11	43
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alpha-dextrin endo	N	. 4	11	41
hypothetical prote	N	. 4	11	40
triacylglycerol li	2	. 4	11	39
tryptophyllin, bas	2	. 4	11	38
venom heptapeptide		.4	11	37
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hypothetical TCL3	4 17956	. 4	11	35
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neuromodulatory peptide WWamide-1 - giant African snail C;Species: Achatina fulica (giant African snail) C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 24-Jul-1997 C;Accession: S33244 R;Minakata, H; Ikeda, T.; Muneoka, Y.; Kobayashi, M.; Nomoto, K. FEBS Lett. 323, 104-108, 1993 A;Title: WWamide-1, -2 and -3: novel neuromodulatory peptides isolated from ganglia A;Accession: S33244; MUID:93265912 A;Accession: S33244 A;Status: preliminary neuromodulatory peptide WWamide-2 - giant African snail C;Species: Achatina fulica (giant African snail) C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 24-Jul-1997 C;Accession: S33245 R;Minakata, H; Ikeda, T; Muneoka, Y; Kobayashi, M; Nomoto, K. FEBS Lett. 323, 104-108, 1993 A;Title: WWamide-1, -2 and -3: novel neuromodulatory peptides isolated from ganglia A;Reference number: S33245 A;Accession: S33245 A;Accession: S33244; MUID:93265912 A;Accession: S33245 A;Accession: S33245 A;Accession: S33245 A;Accession: S33245 A;Accession: S33245 A;Accession: S33245 A;Accession: S33245 A;Accession: S33245 A;Accession: S33245 A;Accession: S33245 A;Accession: S33245 A;Accession: S33245 A;Accession: S33245 A;Accession: S33245 A;Accession: S33245 A;Accession: S33245 A;Accession: S33245 A;Accession: S33245 RESULT S33244 δÃ A; Molecule type: A; Residues: 1-7 < Вb Query Match Best Local S Matches 3 Matches Query Match Best Local Local Similarity nes 2; Conserv Local Similarity 60.0 nes 3; Conservative 1 WREMS 1 wrxxs e: protein 5 S 42.9%; ilarity 40.0%; Conservative 51.4%; ; Score 15; DB ; Pred. No. 2.2e 1; Mismatches Score 18; DB Pred. No. 2.2e 0; Mismatches DB 2; 2.2e+05; DB 2; .2e+05; Length 7; Length 7; Indels Indels 0 0 Gaps Gaps 0 0

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1 wrxxs

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A; Molecule type: DNA
A; Residues: 1-8 <WHE>
C; Keyw&rds: T-cell receptor
                                                                                                                                  R;Whetsell, M.; Mosley, R.L.; Whetsell, L.; Schaefer, F.V.; Miller, K.S.; Klein, J.R. Mol. Cell. Biol. 11, 5902-5909, 1991
A;Title: Rearrangement and junctional-site sequence analyses of T-cell receptor gamma A;Reference number: A41946; MUID:92049316
A;Accession: A38887
                                                                                                                                                                                                                                                                                                            RESULT
A38887
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R;Werner, S.; Duan, D.S.R.; de Vries, C.; Peters, K.G.; Johnson, D.E.; Williams, L.T.
Mol. Cell. Biol. 12, 82-88, 1992
A;Title: Differential splicing in the extracellular region of fibroblast growth factor A;Reference number: A42057; MUID:92107200
A;Accession: A42057
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A;Title: WWamide-1, -2 and -3: novel neuromodulatory peptides isolated A;Reference number: S33244; MUID:93265912
A;Accession: S33246
                                                                                                                                                                                                                               T-cell receptor gamma chain (5t.2) - mouse (fragment) C;Speciles: Mus musculus (house mouse) C;Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 07-May-1999 C;Accession: A38887
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  fibroblast growth factor receptor 1, secreted - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C:Species: Achatina fulica (giant African snail)
C:Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 24-Jul-1997
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C;Keywords: growth factor receptor
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A; Residues: 1-8 <WER>
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fulica (giant African snail)
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75.0%;
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R;Duve, H.; Johnsen, A.H.; Scott, A.G.; Yu, C.G.; Yagi, K.J.; Tobe, S.S.; Thorpe, A. Proc. Natl. Acad. Sci. U.S.A. 90, 2456-2460, 1993
A;Title: Callatostatins: neuropeptides from the blowfly Calliphora vomitoria with seq A;Reference number: A47393; MUID:93211980
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R;Whetsell, M.; Mosley, R.L.; Whetsell, L.; Schaefer, F.V.; Miller, K.S.; Klein, J.R. Mol. Cell. Biol. 11, 5902-5909, 1991
A;Title: Rearrangement and junctional-site sequence analyses of T-cell receptor gamma A;Reference number: A41946; MUID:92049316
A;Accession: A41946
A; Reference number: A; Accession: D47393
                                                                                                        C; Accession: D47393
                                                                                                                         neuropeptide callatostatin 4 - bluebottle fly (Calliphora vomitoria)
C;Species: Calliphora vomitoria
C;Date: 16-Feb-1994 #sequence_revision 18-Nov-1994 #text_change 28-Apr-1995
                                                                                                                                                                                              D47393
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Best Local Similarity
"~+~hes 2; Conserv?
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A; Residues: 1-6 <WHE>
C; Keywords: T-cell receptor
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C;Species: Mus musculus (house mouse)
C;Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 07-May-1999
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C; Accession: S13661
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Best Local
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2.2e+05;
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RESULT
B53284
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A34626
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R;Cintra, A.C.O.; Vielra, C.A.; Giglio, J.R.
J. Protein Chem. 9, 221-227, 1990
A;Title: Primary structure and biological activity
A;Reference number: A37196; MUID:90351557
A;Accession: F37196
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F37196
T-cell receptor beta 2 chain C; Species: Oryctolagus cunicu
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A:Molecule type: protein
A:Residues: 1-3 <CIN>
C:Keywords: pyroglutamic acid
F:1/Modified sitc: pyrrolidone carboxylic acid (Gln) #status experimental
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C:Species: Bothrops insularis (island jararaca)
C:Datc: 14-Feb-1992 #sequence_revision 01-Dec-1992 #text_change 05-Aug-1994
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A;Molecule type: protein
A;Residues: 1-8 <DUV>
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2.2e+05;
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Query Match
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Mol. Immunol. 28, 881-888, 1991
A,Title: Evolutionarily conserved organization and A; Reference number: A53284; MUID:91342695
A; Accession: B53284
A; Molecule type: protein
A; Residues: 1-5 (SHI)
C; Comment: This peptide corresponds to the five carboxyl-terminal residues
C; Superfamily: gastrin
C; Keywords: amidated carboxyl end; neuropeptide
F; 5/Modified site: amidated carboxyl end (Phe) #status experimental
                                                                                                                              R;Shively, J.; Reeve Jr., J.R.; Eysselein, V.E.; Ben-Avram, C.; Vlgna, S.R.; Wam. J. Physiol. 252, G272-G275, 197
Am. J. Physiol. 252, G272-G275, 197
A;Title: CCK-5: sequence analysis of a small cholecystokinin from canine brain A;Reference number: A32516; MUID:87153871
A;Accession: A32516
                                                                                                                                                                                                                                      C:Species: Canis lupus familiaris (dog)
C:Date: 18-Oct-1989 #sequence_revision 18-Oct-1989 #text_change 18-Aug-2000
C:Accession: A32516
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A; Title: Junctional sequences of fetal T
A; Reference number: PT0509; MUID:91277601
A; Accession: PT0661
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                                                                                                                                                                                                                                                                                                       Cholecystokinin-5 - dog
N; Alternate names: CCK-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C;Species: Mus musculus (house mouse)
C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
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A; Residues: 1-4 <HAR>
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A32516
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A; Residues: 1-4 <FEE>
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Similarity

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Score Pred.

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DB 2.2

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gut pentapeptide - Japanese eel (Species: Anguilla japonica (Japanese eel) (C;Species: Anguilla japonica (Japanese eel) (C;Date: 31-Mar-1992 #sequence_revision 31-Mar-1992 #text_change 11-Apr-1995 (C;Accession: JH0253 R;Uesaka, T.; Ikeda, T.; Kubota, I.; Muneoka, Y.; Ando, M. Biochem. Biophys. Res. Commun. 180, 828-832, 1991 A;Title: Structure and function of a pentapeptide isolated from the gut of the pentagen
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A; Residues: 1-5 <GRA>
A; Residues: 1-5 <GRA>
C; Keywords: amidated carboxyl end; neuropeptide; pyroglutamic acid
F; 1/Modified site: pyrrolldone carboxylic acid (Gln) #status experimental
F; 5/Modified site: amidated carboxyl end (Trp) #status experimental
                                                                                                                                                                                              bradykinin-potentiating peptide 7 - island jararaca C;Species: Bothrops insularis (island jararaca) C;Date: 14-Feb 1992 #sequence_revision 01-Dec-1992 C;Accession: G37196
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A;Title: Primary structure and biological activity of bradykinin A;Reference number: A37196; MUID:90351557 A;Accession: G37196 A;Status: preliminary
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Brain Res. 442, 354-358, 1988
Brain Res. 142, 354-358, 1988
A;Title: Tsolation of cdlu-Ser-Lu-Arg-Trp-NH-2,
A;Reference number: A60803; MUID:88222764
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C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change
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Ig heavy chain CRD3 region (clone 6-88) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
C;Accession: PT0308
T-cell receptor beta chain V-D-J region (120-1J) - mouse (fragment) (;Speciles: Mus musculus (house mouse) C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-C;Accession: PT0640; PT0685; PT0729
                                                                       RESULT
PT0729
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A:Title: Preferential utilization of specific immunoglobulin A;Reference number: PT0222; MUID:91108337
A:Accession: PT0308
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A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ig heavy chain CRD3 region (clone 4-91C) - human (fragment) C;Species: Homo sapiens (man) C;Species: Homo sapiens (man) C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996 C;Accession: PT0281
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A;Mesidues: 1-5 <CIN>
C;Keywords: pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
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                                                                                                                                                                                                                                                                                                                                              A; Molecule type: DNA
A; Residues: 1-5 < YAM>
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A; Residues: 1-5 < YAM>
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2.2e+05;
thes 0;
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2.2e+05;
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                  #text_change 30-May-1997
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A:Reference number: S66191;
A:Accession: S66195
A:Molecule type: protein
A:Residues: 1-6 <HJE>
C:Superfamily: alcohol dehyo
                                                                                       C:Species: Gadus sp. (cod)
C:Species: Gadus sp. (cod)
C:Date: 19-Mar-1997 #sequence_revision 29-Aug-1997 #text_change 12-Jun-1998
C:Accession: S66195
C:Accession: S66195
R:Hjelmqvist, L.; Hackett, M.; Shafqat, J.; Danielsson, O.; Iida, J.; Hendrickson, R.C FEBS Lett. 367, 237-240, 1995
A:Title: Multiplicity of N-terminal structures of medium-chain alcohol dehydrogenases.
                                                                                                                                                                                                                   RESULT
S66195
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A:Residues: 1-5 <FE3>
A:Experimental source: newborn thymus,
C:Keywords: T-cell receptor
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A.Accession: PT0640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 J. Exp. Med. 174, 115-124, 1991
A;Title: Junctional sequences of fetal TA;Reforence number: PT0509; MUID:91277601
A;Accession: PT0580
A;Status: translation not shown
A;Molecule type: mRNA
A;Residues: 1-5 <FEE>
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C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992
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A;Status: translation not shown
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A; Residues: 1-5 <FE2>
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A; Residues: 1-5 <FEE>
                                                                                                                                                                                                alcohol dehydrogenase (EC 1.1.1.1) class III low affinity form - cod (Gadus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Accession: PT0685
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 alcohol dehydrogenase; long-chain alcohol dehydrogenase homology
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}; Pred. No. 2.2
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J. 2.2e+05;
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RESULT
B31263
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Proc. Natl. Acad. Sci. U.S.A. 85, 9114-9118, 1988
A;Title: Evidence that a point mutation in dihydrofolate reductase-thymidylate syntha A;Reference number: A94217; MUID:89057886
A;Accession: A31263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C;Accession: D.W.
R;Yee, T.W.; Smith, D.W.
Proc. Natl. Acad. Sci. U.S.A. 87, 1278-1282,
A;Title: Pseudomonas chromosomal replication
A;Title: Acad. A34835; MUID:90160310
                        dihydrofolate reductase (EC 1.5.1.3) / thymidylate synthase C;Species: Plasmodium falciparum C;Date: 28-Feb-1990 #sequence_revision 28-Feb-1990 #text_che C;Accession: B31263
                                                                                                                                                                                                                                                                                              A; Molecule type: DNA
A; Residues: 1-6 <PET>
C; Keywords: methyltransferase; NADP; oxidoreductase
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C:Date: 28-Feb-1990 #sequence_revision
C:Accession: A31263
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A31263
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C:Date: 13-Jul-1990 #sequence_revision
C:Accession: B34835
           R; Peterson, D.S.;
                                                                                                                                                                                                                                                                                                                                             A; Status: not compared with conceptual translation
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A; Residues: 1-6 <YEE>
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A;Accession: B34835
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Best Local Similarity
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walliker, D.; w
Sci. U.S.A. 85,
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Wellems, T.E.
5, 9114-9118,
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C:Species: Locusta migratory locust
C:Species: Locusta migratoria (migratory locust)
C:Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 08-Dec-1995
C:Accession: A61068
R:Schoofs, L.: Holman, G.M.: Proost, P.: Van Damme, J.: Hayes, T.K.: De Loof, A.
Regul. Pept. 37, 49-57, 1992
A;Title: Locustakinin, a novel myotropic peptide from Locusta migratoria, isolation, pri
A;Reference number: A61068; MUID:92262851
A;Accession: A61068
A;Molecule type: protein
A;Residues: 1-6 <SCH>
C:Keywords: amidated carboxyl end; cephalomyotropic peptide: neuropeptide
F;6/Modified site: amidated carboxyl end (Gly) #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Title: Evidence that a point mutation in dihydrofolate reductase-thymidylate synthase A;Reference number: A94217; MUID:89057886
A;Accession: B31263
A;Status: not compared with conceptual translation
A;Molecule type: DNA
A;Residues: 1-6 <PET>
C;Keywords: methyltransferase; NADP; oxidoreductase
Search completed: January 14, 2002, 07:44:22 Job time: 408 sec
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   January 14, 2002, 07:52:04; Search time 29.66 Seconds (without alignments) 9.889 Million cell updates/sec
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ACI_TUAL
AKH_CIBAU
AKH_FTABACFU
CKN_MACEU
HTF1_PERAM
HTF_TENMO
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P35920 achatina fu

P35921 achatina fu

P82154 cydia pomon

P41840 calliphora

P82155 cydia pomon

P30425 bothrops in

P54714 canis famil

P34639 mus musculu

P41491 locusta mig

P18691 thunnus alb

P14086 gryllus bim

P25418 libellula a

P25423 melolontha

P14595 tabanus atr

P30369 macropus eu

P04548 periplaneta

P14596 periplaneta

P14596 periplaneta

P25419 tenebrio mo

P21140 leucophaea

P21141 leucophaea

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ANDARD; PRT; 7 AA. 29, Created) 29, Last sequence update) 30, Last annotation update) 31ant African snail). a; Mollusca; Gastropoda; Pulmonata; tinidae; Achatina.	Score 18; DB 1; Length Pred. No. le+05; 0; Mismatches 2; Inde	720; a Y., Kobayashi M., No a Y., Kobayashi M., No neuromodulatory peptid snail, Achatina fulica TORY EFFECTS ON THE PE ON A CENTRAL NEURON. 62D5B69B041310 CRC64;	PRT; 7 AA. Ited) L sequence update) L annotation update) Lican snail). Sca; Gastropoda; Pulmonata; Achatina.	LPK_LEUMA MNP1_LEPDE ALL5_CYDPO FARP_ARTTR FARP_ARTTR FARP_MONEX ALL2_CARMA ALL4_CARMA ALL4_CARMA ALL5_CARMA ALL5_CARMA FAR1_PROCL FAR2_PROCL FAR2_PROCL FAR4_PANRE FARB_CALVO HY7_PIG ALIGNMENTS	AL18 CARMA
Stylommatophora;	.h 7; .dels 0; Gaps 0	moto K.; es isolated from ."; RIPHERAL NERVOUS	Stylommatophora;	p13049 leucophaea p42984 leptinotars p82156 cydia pomon p4.1853 artioposthi p43171 ascaris suu p02729 homo sapien p4.1966 moniezia ex p81805 carcinus ma p81806 carcinus ma p81808 carcinus ma p81808 carcinus ma p81809 procambarus p38499 procambarus p38498 procambarus p41875 panagrellus p41866 calliphora p01153 sus scrofa	_

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P82154;
30-MAY-2000 (Rel. :
30-MAY-2000 (Rel. :
30-MAY-2000 (Rel. :
CYDIASTATIN 3.
Duve
                                                                       Cydia pomonella (Codling moth).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Endopterygota; Lepidoptera; Glossata; Ditrysia;
Tortricoidea; Tortricidae; Olethreutinae; Cydia.
                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=93265912; PubMed=8495720; Minakata H., Ikeda T., Muneoka Y., Kobayashi Minakata H., Ikeda T., muneoka Y., Kobayashi "Wwamide-1, -2 and -3: novel neuromodulatory gangila of the African giant snail, Achatina FEBS Lett. 323:104-108(1993).
PIR; S33244; S33244.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=93265912; PubMed=8495720; Minakata H., Ikeda T., Muneoka Y., Kobayashi M., Nomoto "WWamide-1, -2 and -3: novel neuromodulatory peptides is ganglia of the African giant snail, Achatina fulica."; FEBS Lett. 323:104-108(1993).
                  TISSUE=Larva;
MEDLINE=98054539;
                                                                                                                                                                                               CYDPO
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa; Mollus
Achatinacea; Achatinidae;
NCBI_TaxID=6530;
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Eukaryota; Metazoa; Mollusca; Gastropoda;
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                                          SEQUENCE.
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TISSUE=Ganglion;
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      Α.Η.,
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                   PubMed=9392829;
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       Maestro J.-L.,
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l; Mismatches
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Pred. No. le+05;
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Pred. No.
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P41840;
01-NOV-1995
01-NOV-1995
30-MAY-2000
                                                                                                                          Neuropeptide;
MOD_RES
UNSURE
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01-NOV-1995 (Rel. 32, Last sequence update)
30-MAY-2000 (Rel. 39, Last sequence update)
CALLATOSTARIN 4 (LEU-CALLATOSTARIN 4).
Calliphora vomitoria (Blue blowfly).
CHARYOCTA, Metazoa; Arthropoda; Tracheata; Hexapoda;
Pterygota; Neoptera; Endopterygota; Diptera; Brachyce
Oestroidea; Calliphoridae; Calliphora.
NCBI_TaxID=27454;
                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE.
SEQUENCE.
TISSUE=Thoracic ganglion;
MEDLINE=93211980; PubMed=8460157;
MEDLINE=97211980; PubMed=8460157;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              _CALVO
                                                                                                                                                                  PIR;
                                                                                                                                                                                                                                                      "Distribution and functional significance of Leu-callatostatins in the blowfly Calliphora vomitoria.";
Cell Tissue Res. 276:367-379(1994).

-!- FUNCTION: MAY ACT AS A NEUROTRANSMITTER OR NEUROMODULATOR AND FAROLE IN THE INTEGRATION OF INFORMATION WITHIN THE BRAIN. MAY INVOLVED IN THE CONTROL OF VISCERAL MUSCLES DUE TO ITS ABILITY
                                                                                                                                                                                                                                                                                                                                                                                    "Callatostatins: neuropeptides from the blowfly Calliphora with sequence homology to cockroach allatostatins."; proc. Natl. Acad. Sci. U.S.A. 90:2456-2460(1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Neuropeptide; Amidation.
MOD_RES 8 8
SEQUENCE 8 AA; 926 MW
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"Lepidopteran peptides of the allatostatin superfamily.";
Peptides 18:1301-1309(197).
-!- SIMILARITY: BELONGS TO THE ALLATOSTATIN FAMILY.
                                                                                                                 SEQUENCE
                                                                                                                                                                                                                                                                                                                                                CHARACTERIZATION. MEDLINE=94291167;
                                                                                                                                                                                                                                                                                                                                                                                                                            Thorpe A.;
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N
                         2 rxxsf
                                                                                                                                                                BEHAVE AS POTENT INHIBITORS OF PERISTALIC MOVEMENTS. MAY ALSO FULFILL A NEUROHORMONAL ROLE ON MUSCLES OF THE GUT AND HEART:
- TISSUE SPECIFICITY: BRAIN, SUBOESOPHAGEAL GANGLION, RETROCERE COMPLEX, THORACICO-ABDOMINAL GANGLION, PERIPHERAL NEUROSECRET SYSTEM AND INTESTINE.
SYSTEM AND INTESTINE.
- SIMILARITY: BELONGS TO THE ALLATOSTATIN FAMILY.
R: D47393; D47393.
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                                                  Conservative
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OR N.
D32879D5AB47740A
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                                                 Score 12; DB
Pred. No. 1e+0
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1e+05;
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30-MAY-2000
30-MAY-2000
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MEDLINE-9805539; PubMed-9392829;

Duve H., Johnsen A.H., Maestro J.-L., Scott A.G., Winstan Davey M., East P.D., Thorpe A.;

"Lepidopteran peptides of the allatostatin superfamily.";

Peptides 18:1301-1309(1997).

-1- SIMILARITY: BELONGS TO THE ALLATOSTATIN FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cydia pomonella (Codling moth).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insect Ptorygota; Neoptera; Endopterygota; Lepidoptera; Glossata; Tortricoidea; Tortricidae; Olethreutinae; Cydia.
NCBI_TaxID-82600;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       _CYDPO
                                                                                                                              MEDLINE-90351557; PubMed-2386615;
Cintra A.C.O., Vleira C.A., Ciglio J.R.;
Cintra A.C.O., Vleira C.A., Ciglio J.R.;
Cintra A.C.O., Vleira C.A., Ciglio J.R.;
Primary structure and biological activity of bradykinin potentiating peptides from Bothrops insularis snake venom.";
J. Protein Chem. 9:221-227(1990).

-!- FUNCTION: THIS PEPTIDE BOTH INLIBITS THE ACTIVITY OF THE ANGIOTENSIN-CONVERTING ENZYME AND ENHANCES THE ACTION OF BRADYKININ BY INHIBITING THE KINASES THAT INACTIVATE IT.

IT ACTS AS AN INDIRECT HYPOTENSIVE AGENT.

PIR: 637196; 637196.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOD_RES
                                                                                                                                                                                                                                                                                    SEQUENCE
                                                                                                                                                                                                                                                                                                          Bothrops insularis (Island jararaca) (Queimada jararaca). Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleost Lepidosauria; Squamata; Scloroglossa; Serpentes; Colubroidea; Viperidae; Crotalinae; Bothrops.
                                                                                                                                                                                                                                                                                                                                                                                             Ol-APR-1993 (Rel. 25, Croated)
Ol-FEB-1994 (Rel. 28, Last sequence update)
Ol-FEB-1994 (Rel. 28, Last annotation update)
BRADYKININ-POTENTIATING PEPTIDE 55,2 (5A) (
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P30425;
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                                                                                            SEQUENCE
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P82155;
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annotation
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922879D5AB47740D CRC64;
                         score 11; DB; Pred. No. 1e: 0; Mismatches
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(5A) (ANGIOTENSIN-CONVERTING
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P54714;
01-OCT-1996
01-OCT-1996
15-JUL-1998
                                                                                                                                                                                                                                                                                                                                                                               _MOUSE __MOUSE STANDARD; PRT; 5 AA. P3639; P3639; O1-OCT-1994 (Rel. 30, Created) O1-OCT-1994 (Rel. 30, Last sequence update) O1-FEB-1995 (Rel. 31, Last annotation update) UNKNOWN PROTEIN FROM 2D-PAGE OF FIBROBLASTS (
                                        TISSUE=Fibroblast;
MEDLINE=95009907; PubMed=7523108;
MEDLINE=95009907; PubMed=7523108;
Merrick B.A., Patterson R.M., Wichter L.L., He C., Selki
"Separation and sequencing of familiar and novel murine
using preparative two-dimensional gel electrophoresis.";
Electrophoresis 15:735-745(1994).
-i- MISCELLANEGUS: ON THE ZD-GEL THE DETERMINED PI OF TH
PROTEIN IS: 6.6, ITS MW IS: 19 KDA.
                                                                                                                                                                                                                                                                                       Mus musculus (Mouse).
Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; E
Mammalia: Eutheria; Rodentia; Sciurognathi; Muridae;
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Mammalia; Eutheria;
NCBI_TaxID=10090;
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Dunn M.J., Corbett J.M., Wheeler C.H.;
"HSC-2DPAGE and the two-dimensional gel electrophoresis database
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Canis familiaris (Dog).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Carnivora; Fissipedia; Canidae;
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01-OCT-1996 (Rel. 34, Last sequence update)
15-JUL-1998 (Rel. 36, Last annotation update)
TRIOSEPHOSPHATE ISOMERASE (EC 5.3.1.1) (TIM)
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-i- SIMILARITY: BELONGS TO THE TRIOSEPHOSPHATE ISOMERASE FAMILY.
HSC-2DPAGE; P54714; DOG.
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Canis.
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aNGIOTENSIN-CONVERTING ENZYME INHIBITOR.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCMI
                                                                                                  MEDLINE=88326322; PubMed=3415688; Kohama Y., Matsumoto S., Oka H., Tera "Isolation of angiotensin-converting
                                                                                                                                                                                                                                                                                                                                                  Thunnus albacares (Yellowfin tuna) (Neothunnus macropterus). Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei; Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Scombroiscombridae; Thunnus.
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MEDLINE-92262851; PubMed-1585017;
Schoofs L., Holman G.M., Proost P.,
de Loof A.;
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Pterygota; Neoptera; Orthopteroidea;
Acridomorpha; Acridoidea; Acrididae;
                                       Biochem.
                                                                     muscle.";
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-i- FUNCTION: MYOTROPIC PEPTIDE. MAY BE IMPORTANT IN THE STIMULAT OF ION TRANSPORT AND INHIBITION OF DIURETIC ACTIVITY IN MALPI
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                                                                                                                                                                     Neuropeptide; Amidation; Flight.
MOD_RES 1 1 PYR
MOD_RES 8 AMI
SEQUENCE 8 AA; 938 MW; 86786
                                                                                                                                                                                                                                                                                                                                                         Gaede G., Rinehart K.L. Jr.;

"Primary sequence analysis by fast atom bombardm of a peptide with adipokinetic activity from the the cricket Gryllus bimaculatus.";

Biochem. Biophys. Res. Commun. 149:908-914(1987)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gryllus bimaculatus (Two-spotted cricket), and Romalea microptera (Lubber grasshopper). Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AKHG_GRYBI STANDARD; PRT; 8 AA. P14086; P1-154086; P1-1540-1540 (Rel. 13, Created) 01-FEB-1994 (Rel. 28, Last sequence update) 01-FEB-1994 (Rel. 28, Last annotation update) ADIPOKINETIC HORMONE G (AKH-G) (RO II).
                                                                                                                                                                                                                            -!- SIMILARITY: BELONGS TO
PIR; A28004; A28004
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Gryllinae;
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01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last sequence update)
ADIPOKINETIC HORMONE (AKH).
Melolontha melolontha (Cockchafer),
Geotrupes stercorosus (Dor beetle), and
Pachnoda marginata (Flower beetle).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Endopterygota; Coleoptera; Polyphaga;
Scarabaciformia; Scarabacidae; Melolonthinae; Melolontha.
NCBI_TaxID-7061, 7087, 7058;
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P25423;
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                                                                  SPECIES. P. marginata; TISSUE Corpora cardiaca; MEDLINE 92265187; PubMed 1586453; Gaede G., Lopata A., Kellner R., Rinehart K.L. Jr.; Gaede G., Lopata A. Kellner R., Rinehart K.L. Jr.; "Primary structures of neuropeptides isolated from the corpora cardiaca of various cetonid beetle species determined by pulsed-liquid phase sequencing and tandem fast atom bombardment specific for the corporation of the corpora
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TISSUE-Corpora cardiaca;
MEDLINE-90359055; PubMed-2390213.
                                                                                                                                                                                                                                                                                             "A unique charged tyrosine-containing member of the adipokinetic hormone/red-pigment-concentrating hormone peptide family isolated sequenced from two beetle species.";
Biochem. J. 275:671-677(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                  SPECIES M. melolontha, MEDLINE 91248100; Publ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         InterPro; IPR002047; AKH. PROSITE; PS00256; AKH; 1.
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Libellula auripennis (Skimmer dragonfly).

Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;

Ptcrygota; Palaeoptera; Odonata; Anisoptera; Libellulidae; Libellula
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FUNCTION: THIS HORMONE, RELEASED FROM CELLS IN THE CORPORA CARDIACA AFTER THE BEGINNING OF FLIGHT, CAUSES RELEASE OF DIGLYCERIDES FROM THE FAT BODY AND THEN STIMULATES THE FLIG MUSCLES TO USE THESE DIGLYCERIDES AS AN ENERGY SOURCE. SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.; $10596; $10596.
1. Chem. Hoppe-Seyler 373:133-142(1992) FUNCTION: THIS HORMONE, RELEASED FROM CARDIACA AFTER THE BEGINNING OF FLIGHT.
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PubMed=2039445;
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Best Local :
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P14595;
O1-JAN-1990
                                                                                                                                                                        Neuropeptide; Amidation; Flight.
MOD_RES 1 1 PYR
MOD_RES 8 8 AM; 949 MW; 86786
                                                                                                                                                                                                                                          Jaffe H., Raina A.K., Riley C.T., Fraser B.A., Nachman R.J., Vogel V.W., Zhang Y.-S., Hayes D.K.;
Vogel V.W., Zhang Y.-S., Hayes D.K.;
Primary structure of two neuropeptide hormones with adipokinetic hypotrehalosemic activity isolated from the corpora cardiaca of ho flies (Diptera).";
Proc. Natl. Acad. Sci. U.S.A. 86:8161-8164(1989).
-i- FUNCTION: THIS HORMONE, RELEASED FROM CELLS IN THE CORPORA CARDIACA AFTER THE BEGINNING OF FLIGHT, CAUSES RELEASE OF DIGLYCERIDES FROM THE FAT BODY AND THEN STIMULATES THE FLIGHT MUSCLES TO USE THESE DIGLYCERIDES AS AN ENERGY SOURCE.
-i- SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
PIR: A33995; A33995.
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CCKN_MACEU
P30369;
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MEDLINE=90046758; PubMed=2813385;
Jaffe H., Raina A.K., Riley C.T.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pterygota;
Tabanidae;
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Eukaryota; Metazoa; Arthropoda;
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01-FEB-1994
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era; Tabanomorpha;
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RESULT
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Best Local
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                                                                                                                                         SPECIES-P. americana;
SPECIES-P. americana;
MEDLINE-85046530; PubMed=6548628;
MEDLINE-85046530; PubMed=6548628;
                                                                                                                                                                                                                                                                                                                                                                                                 PERAM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Macropus eugenii (Tammar wallaby), and Dasyurus viverrinus (Southeastern quoll). Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Metatheria; Diprotodontia; Macropodidae; Macropus. NCBI_TaxID=9315, 9279;
             SPECIES=P.americana;
MEDLINE=84298179; PubMed=6591205,
Scarborough R.M., Jamieson G.C.,
Miller C.A., Schooley D.A.;
                                                                                                                                                                                                                        Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta; Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria; Blattoidea; Blattide; Periplaneta.
                                                                                                                                                                                                                                                                         (PEA-CAH-I) (LED-CC-I) (HYPERTREHALOSAEMIC NEUROPEPTIDE Periplaneta americana (American cockroach), Leptinotarsa decemilneata (Colorado potato beetle), and
                                                                                                                                                                                                                                                                                                              13-AUG-1987 (Rel. 05, Created)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last annotation update)
HYPERTREHALOSAEMIC FACTOR I (NEUROPEPTIDE M-I)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MOD_RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=88234141; PubMed=3375140; Fan Z.W., Eng J., Shaw G., Yalow R.S.; "Cholecystokinin octapeptide purified from brains of Australian
                                                                                           Biochem.
                                                                                                       "Structures of two cockroach neuropeptides assigned bombardment mass spectrometry.";
                                                                                                                                 Witten J.L., Schaffer M.H., Rinehart K.L. Jr.;
                                                                                                                                                                                                                                                                Blatta orientalis (Oriental cockroach).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         InterPro; IPR001651; Gastrin.
PROSITE; PS00259; GASTRIN; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Peptides 9:429-431(1988).

-!- FUNCTION: THIS PEPTIDE HORMONE INDUCES GALL I

-!- FUNCTION: THIS PEPANOREATIC ENZYMES IN THE
IN THE BRAIN IS NOT CLEAR.
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                                                                  SEQUENCE.
                                                                                                                                                                                                               NCBI_TaxID=6978,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE
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SIMILARITY: BELONGS TO THE GASTRIN/CHOLECYSTOKININ FAMILY.
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PQ0012; PQ001
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 primary structure of two
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                                       PubMed=6591205;
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6976;
                                                                                         Commun. 124:350-358(1984)
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peptides with
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RESULT 18
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Best Local
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Biochem.
                                                                                                            SPECIES-P.americana;
SPECIES-P.americana;
MEDLINE-85046530; PubMed=6548628;
MEDLINE-85046530; PubMed=6548628;
                                                                                                                                                                                                                                                                                                                                                                 HTF2_PERAM STANDARD; PRT; 8 AA.

p04549;
13-AUG-1987 (Rel. 05, Created)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last annotation update)
HYPERTREHALOSAEMIC FACTOR II (NEUROPEPTIDE M-II) (PERIPLANETIN CC-2)
(PEA-CAH-II) (LED-CC-II) (HYPERTREHALOSAEMIC NEUROPEPTIDE II).
Periplaneta americana (American cockroach).
                                                                                                                                                                                                                                    Blatta orientalis (Oriental cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattoidea; Blattoidea; Periplaneta.
NCBI_TaxID=6978, 7539, 6976;
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MOD_RES
MOD_RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PIR;
PIR;
                                            "Structures of two cockroach neuropeptides assigned bombardment mass spectrometry.";
                                                                                             Witten J.L., Schaffer Rinehart K.L. Jr.;
                                                                                                                                                                                          SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PIR;
                                                                                                                                                                                                                                                                                                                                                       Leptinotarsa decemlineata (Colorado potato beetle),
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "The
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cardioacceleratory and hyperglycemic activity from cardiaca of Periplaneta americana.";
Proc. Natl. Acad. Sci. U.S.A. 81:5575-5579(1984).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaede
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SPECIES=B.orientalis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaede
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE.
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t; A44960; A44960.

**COMPTO; IPRO02047; AKH.
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1. Chem. Hoppe-Seyler 371:345-354(1990).

FUNCTION: HYPERTREHALOSAEMIC FACTORS ARE NEUROPEPTIDES THAT ELEVEL OF TREHALOSE IN THE HEMOLYMPH (TREHALOSE THE MAJOR CARBOHYDRATE IN THE HEMOLYMPH OF INSECTE).

SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
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; S08995; S08995.
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                           Res.
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100.0%;
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                      Commun.
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cockroach are identical.";
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Pred. No.
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                        124:350-358(1984)
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                                                                                                                   Cook J.C.,
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                                                                                                                   Hemling M.E.,
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PROSITE; PS00256; AKH; 1.
Neuropeptide; Amidation.
MOD_RES 1 8
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01-MAY-1992
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MEDLING-90253659; PubMed-2340112;

Gucde G., Rinehart K.L. Jr.;

Gucde G., Rinehart K.L. Jr.;

Gucde G., Rinehart K.L. Jr.;

Gucde G., Rinehart K.L. Jr.;

Primary structures of hypertrehalosaemic neuropeptides isolated from the corpora cardiaca of the cockroaches Leucophaea maderae, Gromphadorhina portentosa, Blattella germanica and Blatta orientalis and of the stick insect Extatosoma tiaratum assigned by tandem fast atom bombardment mass spectrometry.";

BIOL. Chem. Hoppe-Seyler 371:345-354(1990).

1-1. FUNCTION: HYPERTRALOSAEMIC FACTORS ARE NEUROPEPTIDES THAT ELEVAL THE LEVEL OF TREBALOSE IN THE HEMOLYMPH (TREHALOSE IS THE MAJOR CARBOHYDRATE IN THE HEMOLYMPH OF INSECTS).

1-1. STMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
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                                                                                                                                                                                                       01-MAY-1992 (Rel. 22, Created)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last sequence update)
HYPERTREHALOSAEMIC FACTOR (HOTH) (HYPERTREHALOSEMIC NEUROPEPTIDE).
Tenebrio molitor (Yellow mealworm), and Zophobas rugipes.
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Ncoptera; Endopterygota; Coleoptera; Polyphaga;
Cucujiformia; Tenebrionidae; Tenebrio.
NCBI_TaxID-7067, 7075;
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                                 "The
                                                         TISSUE-Corpora cardiaca;
MEDLINE-90341081; PubMed-2381871;
Gaede G. Rosinski G.;
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PIR; S08996; S08996.
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B49823; B49823.
primary structure of the hypertrehalosemic neuropeptide brionid beetles: a novel member of the AKH/RPCH family.";
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01-MAY-1991 (Rel. 18
01-MAY-1991 (Rel. 18
LEUCOKININ I (L-I).
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-I- FUNCTION: HYPERTREHALOSAEMIC FACTORS ARE NEUROPEPTIDES THAT ELEVATE THE LEVEL OF TREHALOSE IN THE HEMOLYMPH (TREHALOSE I THE MAJOR CARBOHYDRATE IN THE HEMOLYMPH OF INSECTS).

-I- SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
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Eukaryota; Metazoa; Arthropoda; Trachea
Pterygota; Neoptera; Orthopteroidea; Di
Blaberoidea; Blaberidae; Leucophaea.
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01-MAY-1991 (Rel. 18,
LEUCOKININ II (L-II)
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 Leucophaea maderae (Madeira cockroach).
Eukaryota; Metazoa; Arthropoda; Trachea
Pterygota; Neoptera; Orthopteroidea; Di
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LEUCOKININ IV (L-IV).
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MOD_RES 8 8
SEQUENCE 8 AA; 910 MW
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta; Eukaryota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
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NCBI_TaxID=6988;
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-!- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACTILE ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).
-!- SIMILARITY: TO THE OTHER LEUCOKININS.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE, AND SYNTHESIS
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                                                                                                                                                                                                            "Isolation, primary structure, and synthesis of leucokinins V and N myotropic peptides of Leucophaea maderae.";
Comp. Biochem. Physiol. 88c:27-30(1987).
-!- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACTILE ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).
-!- SYMILATTY: TO THE OTHER LEUCOKININS.
PIR; JS0315; JS0315.
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-i- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACTILE
-ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).

-i- SIMILARITY: TO THE OTHER LEUCOKININS.
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MEDLINE=95331633; PubMed=7607556;
Altus M.S., Wood C.M., Stewart D.A., Ro
Henderson T., Owens G.A., Danner D.B.,
McClung J.K.;
                                                                                                                    "Regions of evolutionary conservation between the rat and human prohibitin-encoding genes.";
Gene 158:291-294(1995).
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Best Local :
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Q95945;
Q95945;
Q1-FEB-1997
Q1-FEB-1997
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01-JUL-1997
01-JUL-1997
01-AUG-1998
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NON_TER
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Koc E.C., Burkhart W., Blackburn K., Moseley A., Spremulli L.L.; "Small subunit of the mammalian mitochondrial ribosome. Identification of the full complement ribosomal proteins present."; Submitted (DEC-2000) to the SWISS-PROT data bank.
-!- SUBCELLULAR LOCATION: MITOCHONDRIAL.
Ribosomal protein; Mitochondrion.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             P82929 PRELIMINARY; PRT; P82929; O1-MAR-2001 (TrEMBLrel. 16, Last seq O1-MAR-2001 (TrEMBLrel. 16, Last ann MITOCHONDRIAL 28S RIBOSOMAL PROTEIN:
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NCBI_TaxID=9913;
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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42.9%;
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Pred. No. 4.7e+05;
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4.7e+05;
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              UL-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAY-2000 (TrEMBLrel. 13, Last annotation update)
INOSITOL 1,4,5-TRISPHOSPHATE BINDING PROTEIN.
Rattus sp.
                                       Q9QVD3
Q9QVD3;
01-MAY-2000
01-MAY-2000
01-MAY-2000
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01-FEB-1997;
01-FEB-1997;
01-AUG-1998;
                                                                                                                                                                                                                                    Calcium channel.
NON_TER 1
NON_TER 8
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01-FEB-1997 (TYEMBLIFEL 07, Last sequence update)
01-AUG-1998 (TYEMBLIFEL 07, Last annotation update)
SKELETAL MUSCLE-SPECIFIC CALCIUM CHANNEL (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bonitz S.G., Coruzzi G., Thalenfeld B., Tzagoloff A., Macino G.; "Assembly of the mitochondrial membrane system. Structure and nucleotide sequence of the gene coding for subunit 1 of yeast cytochrme oxidase.";
                                                                                                                                                                                                                                                                                       Ophoff R.A.;
                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa;
Mammalia; Eutheria;
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 Mammalia;
          Eukaryota;
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V00694; CAA24066.1;
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Eutheria;
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         Metazoa;
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Rodentia;
          Chordata;
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50.0%;
 Rodentia;
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Pred. No. 4.7e+05;
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Pred. No. 4.7e+05;
1; Mismatches (
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Sciurognathi;
Sciurognathi;
          Craniata; Vertebrata;
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  Muridae;
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          Euteleostomi;
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  Murinae;
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Wabbitz P.A., Bowle J.H., Tyler M.J., Peptides from the skin glands of the Peptides from the omparison with the
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J. Biol. Chem. 267:6518-6525(1992).
SEQUENCE 8 AA; 1047 MW; D72415BB06C37041
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Litoria rubella (Desert tree frog)
Eukaryota; Metazoa; Chordata; Cran
Amphibia; Batrachia; Anura; Neobat
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Iwanaga S., Hirata M.;
"Putative inositol 1,4,5-trisphosphate
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Kanematsu T., Takeya H., Watanabe
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01-JUN-1998 (TrEMBLrel. 06, Created)
01-JUN-1998 (TrEMBLrel. 06, Last sequence update)
01-NOV-1998 (TrEMBLrel. 08, Last annotation update)
HMG-1-LIKE PROTEIN (PRAGMENT).
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                                                                                                     Glycine max (Soybean).

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae; eurosids I; Fabales; Fabaceae; Papilionoideae; Glycine.
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"A plant DNA binding protein shares highly with HMG-box proteins.";
Nucleic Acids Res. 19:4769-4769(1991).
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"The structure of new peptides from the Austr
"The structure of new peptide profile a
(Litoria rubella'. The skin peptide profile a
of evolutionary trends of amphibians.";
Aust. J. Chem. 49:955-963(1996).

Aust. J. Chem. 49:955-963(1996)

-I- FUNCTION: MAY ACT AS A NEUROMODULATOR OR
-I- TISSUE SPECIFICITY: SECRETED BY THE SKIN

-I- MASS SPECIROMETRY: MW-965; METHOD-FAB.
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TRYPTOPHYLLIN 5.1.
Litoria rubella (Desert tree frog).
Litoria rubella (Desert tree frog).
Eukaryota; Metazoa; Chordata; Craniata; Ve
Eukaryota; Merachia; Anura; Neobatrachia;
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          O85406 PRELIMINARY; PRT; 8 AA. 085406; (Tremblrel 08, Created) 01-NOV-1998 (Tremblrel 08, Last sequence up 01-NOV-1998 (Tremblrel 08, Last annotation HYPOTHETICAL 1.0 KDA PROTEIN (FRAGMENT).
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Amphibian skin; Amidation; Neuropeptide.

MOD RES 1 1 PYRROLIDONE CARBOXYLIC
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   TISSUE=PLACENTA;
                                                                                                                  Homo sapiens (Human
Eukaryota; Metazoa;
Mammalia; Eutheria;
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Q15888;
                            SEQUENCE FROM N.A.
                                                                                         NCBI_TaxID=9606;
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Lee C.C., Yazdan
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Willems H., Jaeger C., Baljer G.;
"Physical and genetic map of the obligate intracellular bacterium Coxiella burnetii.";
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NCBI_TaxID=777;
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Catarrhini;
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Baldini A., Lindsay E.A., Zhao Z.
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RAMADLINE-20195006; PubMed-10731132;

RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,

RA Adams M.D., Celniker S.E., Li P.W., Hoskins R.A., Galle R.E.,

RA Amanatides P.G., Scherer S.E., Richards S., Ashburner M., Henderson S.N.,

RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,

RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,

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RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,

RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,

RA George R.A., Lewis S.E., Richards S., Lange M., Pelaffer B.D.,

RA Harlis M., Basu A., Basendale J., Bayraktaroglu L., Beasley E.M.,

RA Abril J.F., Agbayani A., An H.-J., Andrews-Pfannkoch C., Baldwin D.,

RA Ballew R.M., Basu A., Basendale J., Bayraktaroglu L., Beasley E.M.,

RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolishakov S.,

RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolishakov S.,

RA Ghorkva D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,

RA Burtis K.Y., Benos P.V., Berman B.P., Bhandari D., Bolishakov S.,

RA Gerry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,

RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,

RA Gerry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,

RA Burtis K.J., Wangelista C.C., Ferriac S., Pleischmann W.,

RA Gerry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,

RA Dutbin K.J., Evangelista C.C., Ferriac S., Pleischmann W.,

RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,

RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,

RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,

RA Harris N.L., Ratvey D., Kraft C., Kravitz S., Kulp D., Lai Z.,

RA Liu X., Mattei B., McIntosh T.C., McLand M.P., McPherson D.L.,

RA Neison D.R., Neison K.A., Nixon K., Nusskern D.R., Pacleb J.M.,

RA Neison 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Drosophila melanogaster (Fruit fly)
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Rubin G.M., Venter J.C.;
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EMBL; AE003569; AAF50870.1; -
FlyBase; FBgn0040648; CG11666.
SEQUENCE B AA; 1062 MW; ED11B5B044004376
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MEDLINE-98010462; PubMed-9350979;

MEDLINE-98010462; PubMed-9350979;

Predel R., Kellner R., Rapus J., Penzlin H., Gaede G.;

"Isolation and structural elucidation of eight kinins from retrocorebral complex of the American cockroach, Periplanet
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MOD_RES 8 8
SEQUENCE 8 AA; 950 MW;
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blattoidea; Blattidae; Periplaneta.
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01-MAR-2001 (TrEMBLTel. 16,
KININ-1 (PEA-K-1).
  SEQUENCE, AND FUNCTION.
TISSUE-CORPORA CARDIACA;
MEDLINE-98010462; PubMed-9350979;
Predel R., Kellner R., Rapus J.,
                                                                                                                                                     Periplaneta americana (American cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta
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Blattoidea; Blattidae; Periplaneta.
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SIMILARITY: BELONGS TO THE KININ FAMILY.
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01-MAR-2001 (TrEMBLrel. 16, L
01-MAR-2001 (TrEMBLrel. 16, L
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SEQUENCE, AND FUNCTION.
TISSUE-CORPORA CARDIACA;
TISSUE-CORPORA CARDIACA;
MEDLINE-98010462; PubMed-9350979;
MEDLINE-98010462; PubMed-9350979;
Predel R., Kellner R., Repus J., Penzlin H., Gaede G.;
Predel R., Kellner R., Rapus J., Penzlin H., Gaede G.;
"Isolation and structural elucidation of eight kinins"
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Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blattoidea; Blattidae; Periplaneta.
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Regul. Pept. 71:199-205(1997).
Regul. Pept. 71:199-205(1997).
-!- FUNCTION: MEDIATES VISCERAL MUSCLE CONTRACTILE
-(MYOTROPIC ACTIVITY).
-!- SIMILARITY: BELONGS TO THE KININ FAMILY.
                 P82688

PRELIMINARY; PRT; 8 AA.

P82688;

01-MAR-2001 (TrEMBLrel. 16, Created)

01-MAR-2001 (TrEMBLrel. 16, Last sequence update)

01-MAR-2001 (TrEMBLrel. 16, Last annotation update)

RININ-4 (PEA-K-4).

Periplaneta americana (American cockroach).

Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;

Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;

Blattoidea; Blattidae; Periplaneta.
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MOD_RES 8 8
SEQUENCE 8 AA; 856 MW
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE
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DC6365A5B9D5BDDA CRC64;
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RESULT 19
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AC 002831
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DT 01-MAY
DE PRO AL
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                        002831;
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01-JUL-1997
01-JUL-1997
01-MAY-1999
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P82689;
01-MAR-2001 (TrEMBLrel. 1
01-MAR-2001 (TrEMBLrel. 1
01-MAR-2001 (TrEMBLrel. 1
KININ-5 (PEA-K-5).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Periplaneta americana (American cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blattoidea; Blattidae; Periplaneta.
                                                                                                                                                                                                                                                                                                                                                                                                                            Neuropeptide; Amidation. MOD_RES 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Predel R., Kellner R., Rapus J., Penzlin H., Gaede G.; "Isolation and structural elucidation of eight kinins from the retrocerebral complex of the American cockroach, Periplaneta
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SEQUENCE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -i- FUNCTION: MEDIATES VISCERAL MUSCLE CONTRACTILE ACTIVITY (MYOTROPIC ACTIVITY).
-i- SIMILARITY: BELONGS TO THE KININ FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TISSUE=CORPORA CARDIACA; MEDLINE=98010462; PubMed=9350979;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE, AND FUNCTION
                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      americana.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NCBI_TaxID=6978;
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SIMILARITY: BELONGS TO THE KININ FAMILY
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Similarity 100.0%;
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(TrEMBLrel. 04, Created)
(TrEMBLrel. 04, Last sequence update)
(TrEMBLrel. 10, Last annotation update)
TYPE III COLLAGEN PROTEIN (FRAGMENT).
                                                                                                          PRELIMINARY;
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100.0%;
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736365A5B9D6DDD8 CRC64;
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Last sequence update)
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01-MAY-2000
01-MAY-2000
01-MAY-2000
        Eukaryota; Metazoa; Chordata; Craniata; Actinopterygii; Neopterygii; Teleostei; Acanthomorpha; Acanthopterygii; Percomor Cyprinodontiformes; Aplocheilidae; Rivul CNEL_TaxID=61836;
                                                                01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAY-2000 (TrEMBLrel. 13, Last annotation update
CYTOCHROME C OXIDASE SUBUNIT I (FRAGMENT).
Terranatos dolichopterus.
Mitochondrion.
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Q9TRY3;
01-MAY-2000
01-MAY-2000
01-MAY-2000
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                                                                                                                                                                                                                                                                                                                                     MEDLINE=92049376; PubMed=1719383; Shimasaki S., Gao L., Shimonaka M., Ling N.; "Isolation and molecular cloning of insulin-like protein-6.";
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SEQUENCE 8 AA; 850 MW; 9FB2CEA37EA7687D
                                                                                                                                                                                                                                                                                                                                                                                                                                         Sus sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAY-2000 (TrEMBLrel. 13, Last annotation update)
101-MAY-2000 (TrEMBLRel. 13, Last annotation update)
1NSULIN-LIKE GROWTH FACTOR-BINDING PROTEIN-6, IGFBP-6.
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"Evidence for insufficient of full-thickness defects c
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MEDLINE=96377339;
Metsaranta M., Kuj
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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jala U.M., Pelliniemi L.,
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Percomorpha; Atherinomorpha;
ae; Rivulinae; Terranatos.
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                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.

MEDLINE-89354669; PubMed-2766382;

Jacobs H.T., Asakawa S., Araki T., Miura K., Smith M.J., Watanabe
"Conserved trnA gene cluster in starfish mitochondrial DNA.";

Curr. Genet. 15:193-206(1989).

EMBL; X16886; CAA34767.1; -.
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Asteroidea; Valvatacea; Valvatida;
NCBI_TaxID:7594;
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                             TISSUE-TESTIS;
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Mammalia; Eutheria;
NCBI_TaxID-10116;
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MEDLINE\wp98008057; PubMed\wp9581555; Hospital V., Prat A., Joulie C., Cherif D., Day "Human and rat testis express two mRNA species of
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Sciurognathi; Muridae;
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29E718;
29E718;
01-MAR-2001 (TrEMBLrel. 16, Createu)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
NEUROPEPTIDE Y (FRAGMENT).
Mus spretus (Western wild mouse).
Mus spretus (Western wild mouse).
Mus spretus (Western wild mouse).
Mus spretus (Western wild mouse).
Taylor B.A., Whek C., Phillips S.J.; "Multiple obesity OTLs identified in an intercross between (New Zealand obese) and the SM (small) mouse Strains."; Submitted (JUL-2000) to the EMBL/GenBank/DDBJ databases. EMBL; AF286200; AAG01474.1; -
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
NCBI_TaxID=10116;
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EMBL; X93208; CAA63695.1; -.
SEQUENCE 8 AA; 886 MW; EA7EA1B1ADC5A5B6 CRC64;
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01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
38KDA NON-ARGINASE GROWTH INHIBITORY FACTOR (NAGIF)(FRAGMENT)
                                                                                                                                            STRAIN-SPRET/EI;
Taylor B.A., Wnek C.
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-I- SIMILARITY: IDENTICAL TO THE 63-70 AA REGION OF
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4.7e+05;
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SEQUENCE 8 AA; 1033 MW; 297685A76AAB1734 CRC64;
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Copyright (c) 1993 - 2000 Compugen
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RESULT
AAB06521
Claudin-2 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection.
       Blaschuck OW,
                                        03-NOV-1998;
30-MAR-1999;
                                                                 03-NOV-1999;
                                                                                11-MAY-2000
                                                                                                 WO200026360-A1
                                                                                                                  Mammalia.
                                                                                                                                                                  Claudin-2
                                                                                                                                                                                  28-SEP-2000
                                                                                                                                                                                                  AAB06521;
                                                                                                                                                                                                                  AAB06521 standard;
                       (ADHE-) ADHEREX TECHNOLOGIES INC
                                                                                                                                                                 cell adhesion recognition sequence SEQ ID NO:
                                                                                                                                                                                 (first
      Symonds JM,
                                        98US-0185908
99US-0282029
                                                                 99WO-CA01029
                                                                                                                                                                                                                  peptide;
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       Gour BJ;
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2000-365610/31

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RESULT
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YX 03-N
YX 30-N
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The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-2 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
                                                                                                                                                                                                                                            Claim 49; Page 98; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200026360-A1
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                                                                                                                                                                                                                                                                                                                                      Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system
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30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claudin-2 modulating agent; cell adhesion recognition sequence;
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99US-0282029.
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Pred. No. 4.3e+05;
Pred. No. 4.3e+05;
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RESULT
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                                                                                                                                                                                                                                       Claim 39; Page 96; 121pp; English.
                                                                                                                                                                                                                                                                 and
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                                                                                                         Sequence
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30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                11-MAY-2000.
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sequence; autoimmune disease; inflammatory disease; cancer;
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99US-0282029.
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                                                         Score 27; DB 21; Pred. No. 4.3e+05;
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Pred. No. 4.3e+05;
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                                               Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  graft rejection; cyclic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claudin-1 modulating agent; cell adhesion recognition sequence;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAB06512 standard;
                     Claudin-3 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 43; Page 97; 121pp; English.
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30-MAR-1999;
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          graft rejection
                                                         Claudin-3 cell adhesion recognition sequence SEQ ID NO:
                                                                                                                           AAB06583 standard; peptide; 8
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                                                                                                                                                                                                                                      Score 27; DB 21;
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Best Local Similarity
Matches 4; Conser
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claudin-3 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection; cyclic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys and across the skin - 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30-MAR-1999;
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ceil adhesion modulators. The claudin-4 group of proteins are cadherins, which are membrane glycoproteins involved in ceil adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant
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                                                                                                           Claim
                                                                                                                                                                                                   WPI;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claudin-4 cell adhesion recognition sequence SEQ ID
                                                                           The present invention relates to the use of peptides as claudin-mediated
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                             and
                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                     Claim 61; Page 101; 121pp; English.
                                                                                                                                                                                                     conformation.
                                                                                                                                                                                                                                                                                                                                                                                                                                          Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2000-365610/31
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30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (ADHE-) ADHEREX TECHNOLOGIES INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
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99US-0282029.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 peptide; 8
                                                                                       77.1%;
50.0%;
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50.0%;
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                                                                      Score 27; DB Pred. No. 4.3e
1; Mismatches
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Pred. No. 4.
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                                                                                       DB 21;
4.3e+05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 21,
4.3e+05;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claudin-1
        Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection; cyclic.
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30-MAR-1999;
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                                                         Claudin-1 cyclic
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                                                                                                                            AAB06479 standard; peptide; 8
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99US-0282029.
                                                        cell adhesion recognition sequence SEQ ID NO: 110
                                                                                                                                                                                                                                               68.6%;
37.5%;
                                                                                                                                                                                                                                   Score 24; DB 21;
Pred. No. 4.3e+05;
2; Mismatches 3
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                                                                                                                                                                                                                                                                                                                                                                                                         Claudin-6 modulating agent; claudin-9 modulating agent; cell adhesion recognition sequence; CAR sequence; autoi inflammatory disease; cancer; graft rejection.
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30-MAR-1999;
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and across the skin -
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                                                                                                        03-NOV-1998;
30-MAR-1999;
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                                                 (ADHE-) ADHEREX TECHNOLOGIES INC
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99US-0282029
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37.5%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gour BJ;
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Pred. No. 4.3e+05;
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                                                                                                                                                                                                                                                                                                                                                                                                                                            autoimmune disease;
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Blaschuck OW,

Symonds JM,

Gour BJ;

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AAB06814
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Best Local :
The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-6 and claudin-9 groups of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-6 and claudin-9 groups of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site.
                                                                                                Claim 73; Page 104; 121pp; English.
                                                                                                                                           Antibody modulation of claudin-mediated cell adhesion vasopermiability, for delivering drugs to tumors and t
                                                                                                                                                                                                                   Blaschuck OW,
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30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claudin-6/9 cyclic cell adhesion recognition sequence
                                                                                                                                                                                                                                                (ADHE-) ADHEREX TECHNOLOGIES INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAB06814 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                    inflammatory disease;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAB06814;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
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                                                                                                                                                                                                                   Symonds JM,
                                                                                                                                                                                                                                                                         98US-0185908.
99US-0282029.
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                                                                                                                               for delivering in -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            68.6%;
37.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                   cancer; graft rejection; cyclic.
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                                                                                                                                                                                                                   Gour
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No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  autoimmune
                                                                                                                                           n for increasing the nervous system
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AAB06823
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Best Local Similarity
Thehes 3; Conserv
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                                                                                                                             The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-7 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases
                                                                                                                                                                                                                inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug del
                                                                                                                                                                                              Claim
                                                                         Sequence
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                                                                                                                                                                                                                                                                                                                          03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claudin-7 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claudin-7 cell adhesion recognition sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAB06823;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             healing and implant adhesion. In addition, they can also facilitate drug delivery to the desired target site. The sequence has a cyclic conformation.
                                                                                                                                                                                                                                                                                 Blaschuck OW,
                                                                                                                                                                                                                                                                                                      (ADHE-) ADHEREX TECHNOLOGIES INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                              graft rejection.
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                                                                                               the desired target site
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                                Similarity
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99US-0282029.
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                                68.6%;
37.5%;
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37.5%;
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                                Score 24; DB 21;
Pred. No. 4.3e+05;
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                                                                                                                                                                                                                                                                                                                                            The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-7 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases. Inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claudin-7 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection; cyclic.
           Claudin modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cance
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        03-NOV-1998;
30-MAR-1999;
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                                                 Claudin cell adhesion recognition modulating sequence SEQ ID NO:
                                                                             05-OCT-2000
                                                                                                                                                                                                                                                                                                           Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Blaschuck OW,
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                                                                                                     AAB06916;
                                                                                                                                                                                                                                                                                                                                    conformation.
                                                                                                                            AAB06916 standard;
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99US-0282029.
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                                                                                                                            Protein;
                                                                                                                                                                                                                                                       68.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gour BJ
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Pred. No. 4.3e+05;
Pred. No. 4.3e+05;
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                                                                                                      Claudin-7 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection.
                                                                                                                                                      Claudin-7 cell adhesion recognition modulating sequence SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 71; Page 103; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin -
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Modified-site
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                                                                                                                                                                                                       AAB06917;
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30-MAR-1999;
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99US-0282029
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           "C-terminal amide"
                                "N-terminal acetyl"
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Pred. No. 4.3e+05;
2; Mismatches 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAR
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                    WPI; 2000-365610/31
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claudin-2 modulating agent;
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                                                                  Blaschuck OW,
                                                                                                                                                                 03-NOV-1998;
30-MAR-1999;
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| wqmssyag 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                       rejection.
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                                                                  Symonds JM,
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                             cell adhesion modulators. The claudin-2 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
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30-MAR-1999;
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pred. No. 4.3e+05;
1; Mismatches 2;
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AABO6528
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-2 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
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                                                                                                                                                 Claudin-2 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                     Claudin-2 cyclic cell adhesion recognition sequence
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30-MAR-1999;
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                                                                                                                graft
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAB06528 standard; peptide; 8
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                                                                                                       rejection; cyclic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      98US-0185908
99US-0282029
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50.0%;
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Pred. No. 4.3e+05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 7;
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Mammalia

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AAB06537
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                                                                    03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                               graft
                                                                                                                                                                                                                      Claudin-2 modulating agent;
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30-MAR-1999;
                      Blaschuck OW,
                                                                                                     03-NOV-1999;
                                                                                                                            11-MAY-2000
                                                                                                                                                   WO200026360-A1
                                                                                                                                                                           Mammalia
                                                                                                                                                                                                                                                                   28-SEP-2000
                                                                                                                                                                                                                                                                                         AAB06537;
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                                             (ADHE-) ADHEREX TECHNOLOGIES INC
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                                                                                                                                                                                                                                                                                                                                                                                           1 wrxxsf 6
                                                                                                                                                                                                          sequence; autoimmune disease; inflammatory disease;
2000-365610/31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2000-365610/31
                                                                                                                                                                                               rejection;
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                                                                                                                                                                                                                                                                (first entry)
                     Symonds
                                                                   98US-0185908
99US-0282029
                                                                                                     99WO-CA01029
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99US-0282029
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                                                                                                                                                                                               cyclic.
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50.0%;
                      'ML
                                                                                                                                                                                                                     cell adhesion recognition sequence;
                      Gour BJ;
                                                                                                                                                                                                                                                                                                                                                                                                                 Score 23; DB ZI, ... Pred. No. 4.3e+05;
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RESULT 23
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Best Local
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30-MAR-1999;
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Pred. No. 4.3e
1; Mismatches
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The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-2 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and ald wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
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30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                      conformation.
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                                                                                                                                    Conservative
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99US-0282029.
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Pred. No. 4.3e+05
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Sequence:
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Perfect score:
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Maximum DB seq
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Database
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 50 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Total number of hits satisfying chosen parameters:
   Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                     Score
   protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          length:
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Gapop 10.0 , Gapext 0.5
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Copyright (c) 1993 - 2000 Comp
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/cgn2_6/ptodata/2/1aa/5B_COMB.pep:*
/cgn2_6/ptodata/2/1aa/6A_COMB.pep:*
/cgn2_6/ptodata/2/1aa/6B_COMB.pep:*
/cgn2_6/ptodata/2/1aa/PCTUS_COMB.pep:*
/cgn2_6/ptodata/2/1aa/Packfiles1.pep:*
US-09-127-574-17
US-09-117-249-280
US-08-109-802n-263
US-08-199-060B-58
US-08-165-545-8
US-08-305-768-27
US-08-367-711-63-27
US-08-871-163-27
US-08-871-163-27
US-08-165-545-7
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4.527 Million cell updates/sec
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26, Appl
16, Appl
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108, Appl
108, Appl
108, Appl
24, Appl
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17, Appl
280, App
263, App
263, App
263, Appl
58, Appl
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PCT-US95-11405-2
                                             TOPOLOGY: PCT-US95-11405-2
Query Match
Best Local Similarity
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US-09-461-697-279	US-08-477-346-264	US-09-398-193-34	US-08-672-850-27	٠	US-09-020-880-39	US-08-981-122-89	US-08-981-122-56	US-08-981-122-33	4	US-08-981-122-20	US-08-981-122-19	US-08-981-122-16	US-08-981-122-12	US-08-894-173-34	US-08-907-403A-7	US-08-190-802A-264	US-07-851-941-3	US-07-851-941-2	US-07-851-941-1	US-08-682-767-25	US-08-477-346-265	US-08-591-632-42
Sequence 279, App	Sequence 264, App		Sequence 27, Appl	Sequence 44, Appl	Sequence 39, Appl	•	Sequence 56, Appl	•	Sequence 26, Appl	Sequence 20, Appl	Sequence 19, Appl	Sequence 16, Appl	Sequence 12, Appl	Sequence 34, Appl	Sequence 7, Appli	Sequence 264, App	Sequence 3, Appl1	Sequence 2, Appli	Sequence 1, Appli	Sequence 25, Appl	Ś	Sequence 42, Appl

Sequence 2, Application PC/TUS9511405 GENERAL INFORMATION: APPLICATION NUMBER: PCT/US95/ ETILING DATE: 18-SEP-1995 PRIOR APPLICATION DATA: US 08/308 APPLICATION NUMBER: US 08/308 ETILING DATE: 16-SEP-1994 ATTORNEY/AGENT INFORMATION: NAME: SAXE, Bernhard D. REGISTRATION NUMBER: 28,665 REFERENCE/DOCKET NUMBER: 1873 TELECOMMUNICATION INFORMATION: TELECHNOME: (2021672-5300 INFORMATION FOR SEQ ID NO: SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA: COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk SEQUENCE CHARACTERISTICS: LENGTH: 7 amino acids CORRESPONDENCE ADDRESS: ADDRESSEE: Foley & Lardner STREET: 3000 K Street, N.W., Suite 500 TITLE OF INVENTION: TELLERAX: (200 TELEFAX: 904136 NUMBER OF SEQUENCES: TYPE: amino acid STRANDEDNESS: single TOPOLOGY: linear COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS Washington : D.C. 20007-5109 (202)672-5399 PHOSPHOROUS-32 LABELING OF ANTIBODIES FOR CANCER THERAPY US 08/308,103 PCT/US95/11405 18733/599/IMIN

54.3%;

Score Pred.

19; No.

DB 5; 1.6e+05;

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Query Match
Best Local Similarity
"hes 3; Conserv?
                                                                                                          ; ORGANISM: Arabidopsis sp
US-09-177-249-280
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US-09-177-249-280
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-127-574-17
                                    Query Match
Best Local Similarity
                                                                                                                                                                           CURRENT APPLICATION NUMBER: U$/09/177,249
CURRENT FILING DATE: 1998-10-22
EARLIER APPLICATION NUMBER: U$ 09/071,838
EARLIER FILING DATE: 1998-05-01
NUMBER OF SEO ID NOS: 324
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION: APPLICANT: Fischer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 280, Application US/09177249 Patent No. 6229064
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                  Matches
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APPLICANT: Baumbach, George A.
APPLICANT: Baumbach, Ruben G.
TITLE OF INVENTION: Alpha-1 Proteinase Inhibitor Binding Peptides
FILE REFERENCE: MSB-7248
CURRENT APPLICATION NUMBER: US/09/127,574
CURRENT FILING DATE: 1998-07-31
NUMBER OF SEQ ID NOS: 62
SOFTWARE: PatentIn Ver. 2.0
                                                                                                                                                                                                                                                                                                     APPLICANT: Goldberg, Robert B.
APPLICANT: The Regents of the University of California
TITLE OF INVENTION: Nucleic Acids That Control Seed and Fruit
TITLE OF INVENTION: Development in Plants
FILE REFERENCE: 023070-086120US
                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Ohad, Nir
APPLICANT: Kiyosue, Tomohiro
APPLICANT: Yadegari, Ramin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Bastek, Patrick
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                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Harada, John
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TYPE: PRT
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                    Conservative
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60.0%;
                                 51.4%;
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                  Score 18; DB 4; Le Pred. No. 1.6e+05; 1; Mismatches 2;
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Pred. No. 1.6e+05;
Pred. No. 1.6e+05;
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US-08-190-802A-263
; Sequence 263, Application US/08190802A
; Patent No. 5519003
                                                                                    ; Sequence 263, Applicati
; Patent No. 6262023
; GENERAL INFORMATION:
APPLICANT: MOCHLY:
APPLICANT: Ron, Dor
                                                                                                                                                                             RESULT 5
US-08-477-346-263
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                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Watches 2; Conserve
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APPLICANT: Mochly
APPLICANT: Ron, Do
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 2
                                                   APPLICANT: Ron, Dorit TITLE OF INVENTION: WD-40 - Derived Peptides and Uses TITLE OF INVENTION: Thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REGISTRATION NUMBER: 33,875
REFERENCE/DOCKET NUMBER: 86
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Fabian, Gary R.
NAME: Fabian, Gary R.
33,875
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/190,802A
FILING DATE: 01-FEB-1994
CLASSIFICATION: 530
CLASSIFICATION: 530
                                                                                                                                                                                                                                                                                                                                                                                                                                               ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLECULE TYPE: peptide HYPOTHETICAL: YES ANTI-SENSE: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
LENGTH: 5 amino acids
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MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Ron, Dorit TITLE OF INVENTION: WITTITLE OF INVENTION: TINUMBER OF SEQUENCES:
                    CORRESPONDENCE ADDRESS:
                                   NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS:
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ZIP: 94306-0850
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CITY: Palo Alto
 ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   amino acid
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                                                                                                                                                          Application US/08477346
                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                   Mochly-Rosen, Daria
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Dehlinger & Associates
O. Box 60850
Morrison & Foerster
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (415) 324-0880
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    single
                                                                                                                                                                                                                                                                                                                                        48.6%;
40.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                           WRTAA peptide
                                                                                                                                                                                                                                                                                                                       1; Mismatches
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                                                                                                                                                                                                                                                                                                                                        Score 17; DB 1;
Pred. No. 1.6e+05;
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Gaps

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COUNTRY: USA ZIP: 20006-1812 STREET: 2000 Pennsylvania Avenue, CITY: Washington

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: NAME/KEY: UNSURE
: LOCATION: (1)...(6)
: OTHER INFORMATION: Xaa - Phe or Tyr
US-09-189-0608-58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-189-060B-58
                                                                                                                                                   APPLICANT: Kauppinen, Markus
APPLICANT: Borge, Diderichsen
TITLE OF INVENTION: Method Of Providing No. 6270968el DNA Sequences
FILE REFERENCE: 4772.204-US
CURRENT APPLICATION NUMBER: US/09/189,060B
CURRENT FILING DATE: 1998-11-10
PRIOR APPLICATION NUMBER: PCT/DK97/00216
PRIOR APPLICATION NUMBER: PCT/DK97/00216
PRIOR FILING DATE: 1997-05-12
NUMBER OF SEQ ID NOS: 74
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 58
LENGTH: 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 58, Application US/09189060B Patent No. 6270968
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/487,07:

FILING DATE: 07-JUN-1995

ATTORNEY/AGENT INFORMATION:

NAME: MURASHIGE, KATE H.

REGISTRATION NUMBER: 2550

REFERENCE/DOCKET NUMBER: 2550

TELECOMMUNICATION INFORMATION:

TELECOMMUNICATION INFORMATION:

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APPLICANT: Sandal, Thomas
APPLICANT: Kauppinen, Mark
APPLICANT: Borge, Diderich
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEFAX: (202) 887-0763:
                                                                                          FEATURE:
                                                                                                            ORGANISM: Prokaryotic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/477,346
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ANTI-SENSE; NO ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HYPOTHETICAL: Y
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS:
LENGTH: 5 amino acids
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nes 2; Conserv
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STRANDEDNESS: sir
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 wrxxs 5
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Pred. No. 1.6e
1; Mismatches
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1.6e+05;
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US-08-350-260A-464
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Best Local Similarity 66.7%;
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             TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
INFORMATION FOR SEQ ID NO: 464:
                                                                                                                                                                                APPLICATION NUMBER: PCT/GB
FILING DATE: 24-MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/
FILING DATE: 31-MAR-1994
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION DATA:
APPLICATION NUMBER: (
FILING DATE: 15-MAY-1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: PCT/GB92/00883 FILING DATE: 15-MAY-1992 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 10-JUL-
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Johnson, Kevin Stuart
APPLICANT: Smith, Andrew John Hammond
TITLE OF INVENTION: Methods for producing members of specific
TITLE OF INVENTION: binding pairs
SEQUENCE CHARACTERISTICS:
                                                                                                                               ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
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STREET: 6300 St
CITY: Chicago
STATE: Illinoi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
                                                                        NAME: Clough, David W
REGISTRATION NUMBER: 36
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: GB 9 FILING DATE: 24-MAR-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 05-DEC-1994 CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY: USA
ZIP: 60606-6402
                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: PCT/GB91/01134 FILING DATE: 10-JUL-1991
                                                                                                                                                     FILING DATE:
                                                                                                                                                                     APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE: David W. Clough
STREET: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 WRXDWF 6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Waterhouse, Peter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Williams, Samuel Cameron
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Winter, Gregory Paul
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PatentIn Release #1.0, Version #1.25 (EPO)
                                                                                                                                                   UMBER: US 08/307,619
16-SEP-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15-MAY-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                      GB 9206318.9
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                                                                                                                                                                                                                                                                                 PCT/GB93/00605
                                                                                      36,107
                                                                          28111/32372
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Pred. No. 1.6e+05;
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RESULT 8
US-08-165-545-8
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Best Local Similarity 33.3
Matches 2; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                              INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                       REFERENCE/DOCKET NUMBER: TELECOMMUNICATION INFORMATION: TELEPHONE: 202-371-8850
                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION: 530
PRIOR APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Mamoru TOMITA et al.
TITLE OF INVENTION: Antimicrobial Agent
TITLE OF INVENTION: Antimicrobial Agent
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSE: Wenderoth, Lind & Ponack
STREET: 805 Fifteenth Street, N.W., #700
                                                                                                                                                            FRAGMENT TYPE --
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: DisplayWrite CURRENT APPLICATION DATA:
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             IMMEDIATE SOURCE:
                                                                                                                                                                                          ANTI-SENSE:
                                                                                                                                                                                                     HYPOTHETICAL:
                                                                                                                                                                                                                       MOLECULE TYPE:
                                                                                                                                                                                                                                                TYPE: amino acid
STRANDEDNESS: sir
                           ORGANELLE:
                                          CELL TYPE:
                                                                                                                                                                                                                                                                                                                           TELEX:
                                                                                                                                                                                                                                                                                                                                          TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITY: Washington STATE: D.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: amino acid
STRANDEDNESS: si
TOPOLOGY: linear
LIBRARY:
                                                                                     DEVELOPMENTAL STAGE: HAPLOTYPE:
                                                                                                                                  STRAIN:
                                                                                                                                                                                                                                     TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                              NAME: Warren M. Cheek, Jr. REGISTRATION NUMBER: 33,367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDIUM TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY:
                                                                       TISSUE TYPE:
                                                                                                                                               ORGANISM:
                                                                                                                                                                                                                                                                               LENGTH:
                                                                                                                  INDIVIDUAL ISOLATE:
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                                                                                                                                                                                                                                                                             3 amino acids
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                                                                                                                                                                                                                                  SS: single
linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Diskette, 5.25 inch, 500 kb
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Pred. No. 1.6e+05;
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RESULT 10
US-08-256-771-17
; Sequence 17, Application US/08256771
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 9
US-08-305-768-27
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; RELEVANT RESIDUES US-08-165-545-8
                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 27, Application US/08305768 Patent No. 5602097 GENERAL INFORMATION:
                                                                                                                                           Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
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                                                                                                                                                                                                                                                                                  CLASSIFICATION: 514
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                   MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION: AN NUMBER OF SEQUENCES: 3 COMPUTER READABLE FORM:
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OTHER INFORMATION:
PUBLICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE:
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                                                                                                                                Local Similarity hes 2; Conserv
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LOCATION:
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TOPOLOGY: li
                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/08/305,768 FILING DATE: 12-SEPT-1994
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100.0%; Pred. No. 1.6e+05;
htive 0; Mismatches 0;
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                                                                                                                             45.7%; Score 16; DB
100.0%; Pred. No. 1.
tive 0; Mismatches
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hes 0;
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Patent No. 5656591

APPLICANT: Mamoru TOMITA et al.

TITLE OF INVENTION: ANTIMICROBIAL AGENTS AND METHOD FOR TREATING TITLE OF INVENTION: PRODUCTS THEREWITH NUMBER OF SEQUENCES: 32

CORRESPONDENCE ADDRESS:

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RESULT 11
US-08-381-984-17
; Sequence 17, Application US/08381984
; Patent No. 5804555
; GENERAL INFORMATION:
APPLICANT: Mamoru TOMITA et al.
TITLE OF INVENTION: ANTIOXIDANT
NUMBER OF SEQUENCES: 32
; CORRESPONDENCE ADDRESS:
CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; TYPE: amino acid
STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-256-771-17
                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
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NAME: WATTOR M. Cheek, Jr.

REGISTRATION NUMBER: 33,367

REFERENCE/DOCKET NUMBER:

TELECOMMUNICATION INFORMATION:

TELECHONE: 202-371-8850
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM COMPATIBLE
OPERATING SYSTEM: WS-DOS
SOFTWARE: WORDPETECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/25
FILING DATE: July 22, 1994
CLASSIFICATION: 514
PRIOR APPLICATION NUMBER:
APPLICATION NUMBER:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
                                                               COMPUTER READABLE FORM: MEDIUM TYPE: Diskette, 3.5 inch, 1.44 mb
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CITY: Washington
STATE: D.C.
                                                                                                                                STREET: 805 Fift
CITY: Washington
STATE: D.C.
                             COMPUTER: IBM Compatible
OPERATING SYSTEM: MS-DOS
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                                                                                               COUNTRY: U
ZIP: 20005
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2 WR
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APPLICATION DATA:
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2; Conserv
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805 Fifteenth Street, N.W.,
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linear
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                 Wordperfect 5.1
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100.0%; Pr
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Query Match
Best Local Similarity
Thes 2; Conserva
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; Sequence 27, Application US/08871163
; Patent No. 5885782
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; OTHER INFORMATION: /note= "the specified peptide as well as ;
OTHER INFORMATION: peptides including the specified peptide US-08-381-984-17
                                                                                                                             ; MOLECULE TYPE: US-08-871-163-27
                                                                                                                                                                                                                                                                                                                                                                                                                                   Patent No.
                                                        Matches
                                                                    Query Match
Best Local
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 3 amino acids
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SEQUENCE CHARACTERISTICS:
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TELECOMMUNICATION INFORMATION:
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FILING DATE: APPLI 11, 1995
CLASSIFICATION: 252
PRIOR APPLICATION DATA:
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ATTORNEY/AGENT INFORMATION:
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LOCATION:
                                                                                                                                                          TOPOLOGY:
                                                                                                                                                                      TYPE: amino acid
STRANDEDNESS:
                                                                                                                                                                                                                                                           APPLICATION NUMBER: FILING DATE:
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IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
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100.0%; Pr
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; Pred. No. 1.6e+05;
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RESULT 14
PCT-US95-11724-27
; Sequence 27, Application PC/TUS9511724
; GENERAL INFORMATION:
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TOPOLOGY: Linear
MOLECULE TYPE: peptide
US-08-767-903-27
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US-08-767-903-27
                                                                           PCT-US95-11724-27
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   Matches
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                             Query Match
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                                                                                                                                                CLASSIFICATION:
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 3 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION: 514
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: PC-DOS/MS-DOS
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: Antifungal Peptides
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                        TOPOLOGY: 11 MOLECULE TYPE:
                                                                                                                                                                                                                                           CURRENT APPLICATION DATA:
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TITLE OF INVENTION: Antifungal Peptides
NUMBER OF SEQUENCES: 47
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Local Similarity
nes 2; Conserv
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                                                                                                                    STRANDEDNESS:
                                                                                                                                      TYPE:
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                                                                                                                                                                                                                            APPLICATION NUMBER: PCT/US95/11724
                                                                                                                                                                                                                                                           SOFTWARE:
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                                                                                                         linear
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               45.7%;
100.0%;
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               Score 16;
Pred. No.
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Pred. No.
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   Mismatches
                                                                                                                                                                                                                                                                       Version #1.25
               DB 5; L
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                             Length 3;
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RESULT 15
US-08-165-545-7
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SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/871,981
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MEDIUM TYPE: Diskett
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                                                                                                                                                                                                                                                                                                                                                                                                    FRAGMENT TYPE:
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATTORNEY/AGENT INFORMATION:
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                                                PUBLICATION INFORMATION:
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CHROMOSOME/SEGMENT:
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                                                                                                                              FEATURE:
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                                                            NAME/KEY:
LOCATION:
IDENTIFICATION METHOD:
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: amino acid
STRANDEDNESS: sir
TOPOLOGY: linear
                                                                                                                                                              MAP POSITION:
                                                                                                                                                                                                                                                                                          CELL TYPE:
                                                                                                                                                                                                                                                                                                         HAPLOTYPE:
TISSUE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: Warren M. Cheek, Jr. REGISTRATION NUMBER: 33,367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CITY: Washington STATE: D.C.
                                                                                                                                            UNITS:
                                                                                                                                                                                                           CLONE:
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JOURNAL:
                              AUTHORS:
                                                                                                                                                                                                                                                                                                                                        DEVELOPMENTAL STAGE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      E: Wenderoth, Lind & Ponack 805 Fifteenth Street, N.W., #700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4 amino acids
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DOCUMENT NUMBER:

FILING DATE:

PUBLICATION DATE:

RELEVANT RESIDUES IN SEQ ID
US-08-165-545-7
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                                                                                                                                                                                                                                                          ; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: WRTA peptide
US-08-190-802A-265
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Best Local Similarity
"~*~hes 2; Conserve
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                                                                                                                           Query Match
Best Local Similarity
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                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: (415) 324-096(
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 4 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: Patentin Relear
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/01
FILING DATE: 01-FEB-1994
CLASSIFICATION: 530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE/DOCKET NUMBER: 86
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE:
HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Mochly-Rosen, Daria
APPLICANT: Ron, Dorit
TITLE OF INVENTION: WD-40 - Derived Peptides and Uses
TITLE OF INVENTION: Thereof
                                                                                                                                                                                                                                                                                                                                                          ANTI-SENSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: amino acid
STRANDEDNESS: sir
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Fabian, Gary R. REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
1 wr 2
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CITY: Palo Alto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 wr
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: Dehlinger & Associates
STREET: P.O. Box 60850
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PAGES:
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                                                                                         45.7%; Score 16; DB 1; I larity 100.0%; Pred. No. 1.6e+05; Conservative 0; Mismatches 0;
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1.6e+05;
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                                                                                                                                                          Length 4;
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                                                                                         Gaps
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Query Match
Best Local Similarity
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                                                                                                         OTHER INFORMATION:
OTHER INFORMATION:
US-08-215-137-11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEPHONE: (908) 594-390
TELEFAX: (908) 594-4720
INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REGISTRATION NUMBER: 35,746
REFERENCE/DOCKET NUMBER: 19108
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/215,137
FILING DATE:
                                                                                                                                                                                       FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                    MOLECULE TYPE: po
HYPOTHETICAL: NO
ANTI-SENSE: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATTORNEY/AGENT INFORMATION:
NAME: Bencen, Gerard H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                      FEATURE:
                                                                                                                                                                                                                                                                                                                                                                     FRAGMENT TYPE: C-terminal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                              OTHER INFORMATION: /label= Tic OTHER INFORMATION: /note= "tetrahydroisoguinoline carboxyllic acid"
                                                                                                                                                                                                                      LOCATION: 2
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRANDEDNESS: single
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                                                                                                                                                        LOCATION:
                                                                                                                                                                         NAME/KEY:
                                                                                                                                                                                                         OTHER INFORMATION:
                                                                                                                                                                                                                                                     NAME/KEY: Modified-site
                                                                                                                                                                                                                                                                                                                                     NAME/KEY: Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY: UI ZIP: 07065
                                                                                                                                                                                                                                                                                                                    LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE:
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2: New Jersey
3: New Jersey
7: United States of America
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5614370
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                              Conservative
                                                                                                                                                                         Modified-site
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Siciliano, Salvatore J
                                                                                                                                                                                                                                                                                                                                                                                                                                   linear
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6 Linclon Ave., P.O. Box 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                 peptide
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                          45.7%; Score 16; DB 1; Le 100.0%; Pred. No. 1.6e+05; tive 0; Mismatches 0;
                                                                                                                       /label= dArg
/note= "D-arginine"
                                                                                                                                                                                                      /label= dCha
/note= "D-cyclohexylalanine"
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                                                         Length 4;
                              Indels
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RESULT 18
US-08-256-771-16
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US-08-222-851-22
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                                                                                                                                                                                                                      Sequence 22, Application US/08222851 Patent No. 5723128 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Patent NO. JULIANI STATION:
GENERAL INFORMATION: GAITA et al.
APPLICANT: MAMORU TOMITA et al.
TITLE OF INVENTION: ANTIMICROBIAL AGENTS AND METHOD FOR TREATING
TITLE OF INVENTION: PRODUCTS THEREWITH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Warren M. Cheek, Jr. REGISTRATION NUMBER: 33,367 REFERENCE/DOCKET NUMBER: TELECOMMUNICATION INFORMATION: TELEPHONE: 202-371-8850
                                                                                                   APPLICANT: CLAYBERGER, CAROL A.
APPLICANT: KRENSKY, ALAN M.
APPLICANT: PARHAM, PETER
TITLE OF INVENTION: CYTOTOXIC T-CELL LYMPHOCYTE ("CTL")
TITLE OF INVENTION: ACTIVITY REGULATION BY CLASS I MHC PEPTIDES
NUMBER OF SEQUENCES: 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/08/
FILING DATE: July 22, 1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: Wordperfect 5.1 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
ADDRESSEE: Wenderoth, Lind & Ponack
STREET: 805 Fifteenth Street, N.W., #700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
                                                                                         CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CITY: Washington
                               STREET: 2000 PEN CITY: WASHINGTON
                                                                                                                                                                                                                                                                                                                                                                                                                               / Match 45.7%; Score 16; DB Local Similarity 100.0%; Pred. No. 1. nes 2; Conservative 0; Mismatches
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TOPOLOGY: lir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OPERATING SYSTEM:
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COUNTRY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER:
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                                                                        ADDRESSEE: MORRISON & FOERSTER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH:
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                                                    2000 PENNSYLVANIA AVENUE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4 amino acids
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hes 0;
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US-08-381-984-16
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Best Local Similarity
Watches 2; Conserve
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 16, Application Patent No. 5804555
GENERAL INFORMATION:
                                                                                                                                                                                                             SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/381
FILLING DATE: APril 11, 1995
CLASSIFICATION: 252
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO:
                INFORMATION FOR SEQ ID NO:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATTORNEY/AGENT INFORMATION:
NAME: MILLMAN, ROBERT A.
REGISTRATION NUMBER: 36,217
                                                                                        NAME: Warren M. Cheek, Jr. REGISTRATION NUMBER: 33,367
REFERENCE/DOCKET NUMBER: TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM: MEDIUM TYPE: Diskette, 3.5 inch, 1.44 mb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
ADDRESSEE: Wenderoth, Lind & Ponack
STREET: 805 Fifteenth Street, N.W., #700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Mamoru TOMITA et al. TITLE OF INVENTION: ANTIOXIDANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
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                                                                                                                                             ATTORNEY/AGENT INFORMATION: NAME: Warren M. Cheek, J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEPHONE: (202) 887-1500
TELEFAX: (202) 494-0792
TELEEX: 90-4030 MRSNFOERSWSH
DRMATION FOR SEQ ID NO: 22:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                FILING DATE:
                                                                                                                                                                                                                                                                                                         OPERATING SYSTEM:
SOFTWARE: Wordper
                                                                                                                                                                                                                                                                                                                                             COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                   ZIP:
                                                                                                                                                                                                                                                                                                                                                                                                                                     CITY: Washington STATE: D.C.
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CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY:
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                                                      TELEFAX:
                                                                     TELEPHONE:
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                                                                       202-371-8850
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100.0%; Pred. No.
tive 0; Mismatc
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; IDENTIFICATION METHOD:
; OTHER INFORMATION: /note- "the specified peptide as well as
; OTHER INFORMATION: peptides including the specified peptide as a fragment thereo
US-08-381-984-16
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Best Local Similarity
""trhes 2; Conservi
                                                                                                                                              US-08-592-646A-62
                                                                                                                                                                                                                                     CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: BEITIDG, WILLIAM P.
REGISTRATION NUMBER: 30,024
REFERENCE/DOCKET NUMBER: WPB 36923
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703 836-6400
TELEPAX: 703 836-2787
INFORMATION FOR SEQ ID NO: 62:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: JOLIVET-REYNAUD, COLETTE
TITLE OF INVENTION: MIMOTOPIC POLYPEPTIDES OF TOXOPLASMA
TITLE OF INVENTION: GONDII AND APPLICATIONS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                          MOLECULE TYPE: peptide
                                                                                                                                                                           TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                              Local Similarity
nes 2; Conserv
                                                                                                                                                                                                                        LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US/08/592,646A FILING DATE: 26-JAN-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CITY: Alexandria
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                                                               Conservative
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100.0%; Pr
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100.0%; Pr
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0; Mismatches
                                                                             Score 16; DB 2; Pred. No. 1.6e+(
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                                                              1.6e+05;
hes 0;
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RESULT 23
US-08-871-355A-108
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                                                                                                                                                                               Sequence 108, Application US/08871355A Patent No. 6015669
GENERAL INFORMATION:
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GENERAL INFORMAN
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                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: PCT/GB95/0287:
FILING DATE: 11-DEC-1995
CLASSITICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: RPMS 101
REFERENCE/DOCKET NUMBER: RPMS 101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING CALL.
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
PCT/GB95/02875
                                                                                                CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea L. Pabst
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELECOMMUNICATION INFORMATION: TELEPHONE: (404) 873-8794
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MEDIUM TYPE: Floppy disk
                                                                                                                                   TITLE OF INVENTION: Identification of Genes NUMBER OF SEQUENCES: 501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE:
HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: David William Holden TITLE OF INVENTION: Identification of Genes NUMBER OF SEQUENCES: 501
                                                                                                                                                                   APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STREET: 2800 One
STREET: 1201 Wes
CITY: Atlanta
STATE: Georgia
                                                                 STREET:
                                                                                                                                                                                                                                                                                                   1 wr 2
1 WR 2
COUNTRY: USA
ZIP: 30309-3450
                                CITY: Atlanta
STATE: Georgia
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ZIP: 30309-3450
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1201 West Peachtree Street
                                                                 2800 One Atlantic Center
1201 West Peachtree Street
                                                                                                                                                                David William Holden
                                                                                                                                                                                                                                                                                                                                                                 45.7%; Score 16; ilarity 100.0%; Pred. No. Conservative 0; Mismatch
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SYSTEM: PC-DOS/MS-DOS
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CURRENT APPLICATION DATA:

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

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RESULT 24
US-08-981-122-24
; Sequence 24, Application US/08981122B
; Patent No. 6127339
                                                                                                   ; OTHER INFORMATION: F-moc amino acids by solid phase method using a multipeptide ; OTHER INFORMATION: synthesizing system (RaMPS) US-08-981-122-24
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Best Local Similarity
Thehes 2; Conserv
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; HYPOTHETICAL:
US-08-871-355A-108
Query Match
Best Local Similarity
Ches 2; Conserve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                                                 OTHER INFORMATION: Sequence of a peptide synthesized in Example 4 from L-form Patent No. 6127339
                                                                                                                                                                                                                                                        SEQ ID NO 24
                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: PCT, PRIOR FILING DATE: 196-66-21 NUMBER OF SEQ ID NOS: 90 SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                                                                                                                      CURRENT FILING DATE: 1997-12-
PRIOR APPLICATION NUMBER: JP
PRIOR FILING DATE: 1995-06-21
                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION NUMBER: US/08/981,122B
CURRENT FILING DATE: 1997-12-18
                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Aritomi, Masaharu TITLE OF INVENTION: Peptide for binding thereto a low density lipoprotein
                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 13
SEQUENCE CHARACTERISTICS:
LENGTH: 4 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                          FILE REFERENCE:
                                                                                                                                                                                        LENGTH: 4
TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                    FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: RPMS 101 CON
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404) 873-8734
TELEPHONE: (404) 873-8734
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FILING DATE: 11-DEC-1995
CLASSIFICATION: 435
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100.0%; Pro
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              45.7%; Score 16; DB 3; L
100.0%; Pred. No. 1.6e+05;
tive 0; Mismatches 0;
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RESULT 25
US-08-981-122-28
; Sequence 28, A
Search completed: January 14, 2002, 07:41:37 Job time: 458 sec
                                                                                             Db
                                                                                                                               Qy
                                                                                                                                                                                                                                                                  ; OTHER INFORMATION: F-moc amino acids by solid phase method using a multipeptide ; OTHER INFORMATION: synthesizing system (RaMPS) US-08-981-122-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              B
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                                                                                                                                                      Query Match
Best Local Similarity
"hes 2; Conserv
                                                                                                                                                                                                                                                                                                                         OTHER INFORMATION: Sequence of a peptide synthesized in Example 5 from L-form Patent No. 6127339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQ ID NO 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Patent No. 6127339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: JP PRIOR FILING DATE: 1995-06-21 PRIOR APPLICATION NUMBER: PCT PRIOR FILING DATE: 1996-06-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILE REFERENCE:
CURRENT APPLICATION NUMBER: US/08/981,122B
CURRENT FILING DATE: 1997-12-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Hatanaka, Yoshihiro
APPLICANT: Aritomi, Masaharu
TITLE OF INVENTION: Peptide for binding thereto a low density lipoprotein
                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                 FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Artificial Sequence
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100.0%; Pred. No. 1.6e+05;
Live 0; Mismatches 0;
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is derived by analysis of the total score distribution.
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14.080 Million cell updates/sec
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T-cell receptor ga
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polygalacturonase
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locustakinin - mig
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T-cell receptor be	T-cell receptor be	Ig mu chain D regi	Ig H chain V-D-J r	glycoprotein compo	tubulin beta-3 cha	180K exoantigen -	H2 class I protein	alpha-dextrin endo	hypothetical prote	triacylglycerol li	tryptophyllin, bas	venom heptapeptide	dermorphin (Trp-4,	hypothetical TCL3	pev-kinin 2 - pena	T-cell receptor ga	T-cell receptor be	T-cell receptor be	T-cell receptor be	T-cell receptor be

neuromodulatory peptide WWamide-2 - giant African snail C;Species: Achatina fulica (giant African snail) C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 24-Jul-1997 C;Accession: S33245

RESULT S33245

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T-cell receptor gamma chain (5t.2) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 07-May-1999
C;Accession: A38887
R;Whetsell, M.; Mosley, R.L.; Whetsell, L.; Schaefer, F.V.; Miller, K.S.; K.Mol. Cell. Biol. 11, 5902-5909, 1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R:Minakata, H.; Ikeda, T.; Muneoka, Y.; Kobayashi, M.; Nomoto, K. FEBS Lett. 323, 104-108, 1993
A:Title: Wwamide-1, -2 and -3: novel neuromodulatory peptides isolated from ganglia o A:Reference number: S33244; MUID:93265912
A:Accession: S33245
                                                                                                                                                                                                          A;Title: Rearrangement and junctional-site sequence analyses of T-cell receptor gamma A;Reference number: A41946; MUID:92049316
A;Accession: A38887
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A38887
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                                                                                                                                A:Status: preliminary; not compared with conceptual translation A;Molecule type: DNA A;Residues: 1-8 <-WHED C;Keywords: T-cell receptor
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100.0%; Pred. No.
tive 0; Mismatc
                                                          42.9%;
                                      Score 15; DB Pred. No. 2.2e 0; Mismatches
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                                                        DB 2;
2.2e+05;
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R:Minakata, H.; Ikeda, T.; A
FEBS Lett. 323, 104-108, 199
A;Title: Wwamide-1, -2 and -
A; Reference number: S33244;
A; Accession: S33246
                                                                                                                                                                                                               neuromodulatory peptide WWamide-3 - giant African snail
C:Species: Achatina fulica (giant African snail)
C:Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #tex
C:Accession: S33246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                R;Minakata, H.; Ikeda, T.; Muneoka, Y.; Kobayashi, M.; Nomoto, K. FEBS Lett. 323, 104-108, 1993
A;Title: WMamide-1, -2 and -3: novel neuromodulatory peptides isolated from ganglia A;Reference number: S33244; MUID:93265912
A;Accession: S33244
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S33244
                                                                                         A; Molecule type:
A; Residues: 1-7
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C:Species: Achatina fulica (giant African snail)
C:Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 24-Jul-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C;Accession: A46306
R;Marangoni, S.; Borges, N.C.C.; Marangoni, R.A.; Antunes, E.; Vieira, C.A.; N.Toxicon 31, 377-384, 1993
A;Title: Biochemical characterization of a vascular smooth muscle contracting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   spasmogenic toxin PNV1 - spider (Phoneutria nigriventer) (fragment)
C;Species: Phoneutria nigriventer
C;Date: 07-0ct-1994 #sequence_revision 07-0ct-1994 #text_change 17-Mar-1999
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A;Accession: A46306
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              Conservative
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2.2e+05;
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                                        Length 7;
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polygalacturonase (EC 3.2.1.15) isoform PG2 - fungus (Sclerotini N;Alternate names: endopolygalacturonase; pectin depolymerase; pc:Species: Sclerotinia sclerotiorum C;Date: 19-Mar-1997 #sequence_revision 21-Nov-1998 #text_change C;Accession: S13661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          T-cell receptor gamma chain (1t.22) - mouse (fragment)
c;Species: Mus musculus (house mouse)
c;Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 07-May-1999
C;Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 07-May-1999
C;Accession: A41946
C;Accession: A41946
C;Accession: Mailer, K.S.; Whetsell, L.; Schaefer, F.V.; Miller, K.S.; K.; Whetsell, M.; Mosley, R.L.; Whetsell, L.; Schaefer, F.V.; Miller, K.S.; K.; Moll. Cell. Biol. 11, 5902-5909, 1991
A;Title: Rearrangement and junctional site sequence analyses of T-cell received.
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A; Molecule type: protein A; Residues: 1-8 <WAK> C; Function:
                                                                        R: Waksman, G: Keon, J.P.R.; Turner, G. Biochim. Biophys. Acta 1073, 43-48, 1991 A; Title: Purification and characterization A; Reference number: S13661; MUID:91120822
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A; Residues: 1-6 <WHE>
C; Keywords: T-cell re
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A;Accession: A41946
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A; Residues: 1-8 <HOL>
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A;Title: Glycopeptides from variant surface
A;Reference number: A61512; MUID:81172836
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40.0%;
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Pred. No. 2.2e
1; Mismatches
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tin depolymerase; pectinase
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RPCH-related neuropeptide - ferruginous spindle C;Speciles: Fusinus ferrugineus (ferruginous spindle) C;Date: 06-Jul-1990 #sequence_revision 06-Jul-1990 #C;Accession: A34626
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A34626
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                                                                                                                                                                                                                                                                                   A:Molecule type: protein
A:Residues: 1-3 <CIN>
C:Keywords: pyroglutamic acid
E:1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT
F37196
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C:Species: Mus musculus (house mouse)
C:Species: Nus musculus (house mouse)
C:Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 07-May-1999
C:Accession: A42057
R:Werner, S.; Duan, D.S.R.; de Vries, C.; Peters, K.G.; Johnson, D.E.; Williams, L.T.
Mol. Cell. Biol. 12, 82-88, 1992
A:Title: Differential splicing in the extracellular region of fibroblast growth factor
A:Reference number: A42057; MUID:92107200
A:Accession: A42057; MUID:92107200
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Pred. No. 2.2e+05;
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Pred. No. 2.2e+05;
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Mol. Immunol. 28, 881-888, 1991
A;Title: Evolutionarily conserved organization and sequences A;Reference number: A53284; MUID:91342695
A;Accession: B53284
A;Status.
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B53284
T-cell
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A;Title: A molluscan neuropeptide related to the crustacean hormone, RPCH.
A;Reference number: A34626; MUID:90179762
A;Status: preliminary
                                                                                                                                                                                                                J. Exp. Med. 174, 115-124, 1991
A;Title: Junctional sequences of fetal T cell receptor beta chains have few N regions A;Reference number: PT0509; MUID:91277601
A;Accession: PT0661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Molecule type: DNA, A;Residues: 1-4 <HAR>
A;Residues: 1-4 <HAR>
A;Cross-references: GB:S60737; NID:g233916; PIDN:AAB19518.1; PID:g233918
A;Note: sequence extracted from NCBI backbone (NCBIN:60737, NCBIP:60738)
C;Keywords: T-cell receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             T-cell receptor beta 2 chain D region, Dbeta2 - rabbit
C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 02-May-1994 #sequence_revision 18-Nov-1994 #text_change 05-Nov-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Molecule type: protein A; Residues: 1-4 <KUR> C; Keywords: neuropeptide
                                                                                                                            A; Experimental source: day 4 postnatal thymus, strain BALB/c C; Keywords: T-cell receptor
                                                                                                                                                                A; Molecule type: mRNA
A; Residues: 1-4 <FEE>
                                                                                                                                                                                                                                                                                                             C; Accession: PT0661
                                                                                                                                                                                                                                                                                                                            T-cell receptor beta chain V-D-J region (121-1BV) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
                                                                                                                                                                                                                                                                                                                                                                                      PT0661
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100.0%; Pr
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100.0%; Pi
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Biochem. Biophys. Res. Commun. 180, 828-832, 1991
A;Title: Structure and function of a pentapeptide isolated
A;Reference number: JH0253
A;Accession: JH0253
A;Molecule type: protein
A;Residues: 1-5 <UES>
A;Experimental source: gut
C;Comment: This peptide increased basal tona -f.
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C;Species: Canis lupus familiaris (dog)
C;Date: 18-Oct-1989 #sequence_revision 18-Oct-1989 #text_change 18-Aug-2000
C;Accession: A32516
R;Shively, J.; Reeve Jr., J.R.; Eysselein, V.E.; Ben-Avram, C.; Vigna, S.R.; Walsh, Am. J. Physiol. 252, G272-G275, 1987
A;Title: CCK-5: sequence analysis of a small cholecystokinin from canine brain and in A;Reference number: A32516; MUID:87153871
A;Accession: A32516
A,Molecule type: protein
A;Residues: 1-5 <SHI>C;Comment: This peptide corresponds to the five carboxyl-terminal residues of cholec C;Superfamily: gastrin
C;Keywords: amidated carboxyl end; neuropeptide
F;5/Modified site: amidated carboxyl end (Phe) #status experimental
                                                                                                                                                            gut pentapeptide - Japanese eel
(;Species: Anguilla japonica (Japanese eel)
C;Date: 31-Mar-1992 #sequence_revision 31-Mar-1992 #text_change
C;Accession: JH0253
R;Uesaka, T; Ikeda, T.; Kubota, I; Muneoka, Y.; Ando, M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Brain Res. 442, 354-358, 1988
A;Title: Isolation of <Glu-Ser-Lu-Arg-Trp-NH-2, a novel neuropeptide from A;Reference number: A60803; MUID:88222764
A;Accession: A60803
A;Molecule type: protein
A;Residues: 1-5 <GRA>
C;Keywords: amidated carboxyl end; neuropeptide: pyroglutamic acid F;1/Modified site: pyrrolldone carboxylic acid (Gln) #status experimental F;5/Modified site: amidated carboxyl end (Trp) #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C;Accession: A60803
C;Accession: A60803
R;Graff, D.; Grimmelikhuijzen, C.J.P.
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Ig heavy chain CRD3 region (clone 6-88) - C;Species: Homo sapiens (man) C;Date: 30-Sep-1993 #sequence_revision 30-C;Accession: PT0308 R;Yamada, M.; Wasserman, R.; Reichard, B.& J. Exp. Med. 173, 395-407, 1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         bradykinin-potentiating peptide 7 - island jararaca
C;Species: Bothrops insularis (island jararaca)
C;Date: 14-Feb-1992 #sequence_revision 01-Dec-1992 #text_change
C;Accession: G37196
                                                                                                                                                                                                                                                                                                                                                                       R:Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G. J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity A;Reference number: PT0222; MUID:91108337
A;Accession: PT0281
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ig heavy chain CRD3 region (clone 4-91C) - human (fragment) C:Species: Homo sapiens (man) C:Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_ch C:Accession: PT0281
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A; Residues: 1-5 < YAM>
A; Exsperimental source: B lymphocyte
C; Keywords: heterotetramer; immunoglobulin
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A;Residues: 1-5 <CIN>
C;Keywords: pyroglutamic acid
C;Keywords: pyroglutamic acid (Gln)
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J. Protein Chem. 9, 221-227, 1990
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3. 2.2e+05;
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T-cell receptor I
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A:Accession: PT0308
A:Molocule type: DNA
A:Residues: 1-5 </AM>
A:Residues: 1-5 </AM>
A:Experimental source: B lymphocyte
C:Keywords: heterotetramer; immunoglobulin
A; Experimental source: day 19 fetal thymus, C; Keywords: T-cell receptor
                                                                           J. Exp. Med. 174, 115-124, 1991
A:TILLE: Junctional sequences of fetal T cell receptor beta chains have few A:Reference number: PT0509; MUID:91277601
A:Accession: PT0580
                                                                                                                                                                  T-cell receptor beta chain V-D-J region (159-2B) - mouse (fragment)
C:Species: Mus musculus (house mouse)
C:Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
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C:Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
C:Accession: PT0640; PT0685; PT0729
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                               A; Molecule type: mRNA
A; Residues: 1-5 <FEE>
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A;Status: translation not shown
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A; Title: Junctional sequences of fetal T cell
A; Reference number: PT0509; MUID: 91277601
                                                              A; Status: translation not shown
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A; Residues: 1-5 <FE2>
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A; Residues: 1-5 <FEE>
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                                                                                                                                                          C; Accession: PT0580
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A; Residues: 1-6 <YEE>
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R;Peterson, D.S.; Walliker, D.; Wellems, T.E. Proc. Natl. Acad. Sci. U.S.A. 85, 9114-9118, 1988 A;Tille: Evidence that a point mutation in dihydrofolate A;Reference number: A94217; MUID:89057886
                                                                                                 dihydrofolate reductase (EC 1.5.1.3) / thymidylate synthase C;Species: Plasmodium falciparum C;Date: 28-Feb-1990 #sequence_revision 28-Feb-1990 #text_cha
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Proc. Natl. Acad. Sci. U.S.A. 87, 1278-1282,
A;Title: Pseudomonas chromosomal replication
A;Reference number: A34835; MUID:90160310
A;Accession: B34835
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C;Date: 13-Jul-1990 #sequence_revision 13-Jul-1990 #text_change
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A;Residues: 1-6 <HJE>
A;Residues: 1-6 <HJE>
C;Superfamily: alcohol dehydrogenase; long-chain alcohol dehydrogenase
C;Keywords: alcohol metabolism; NAD; oxidoreductase
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C;Date: 19-Mar-1997 #sequence_revision 29-Aug-1997 #text_change 12-Jun-1998
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RESULT 25
B31263
B31263
C; Species: Plasmodium falciparum
C; Species: Plasmodium falciparum
C; Date: 28-Feb-1990 #sequence_revision 28-Feb-1990 #text_change 20-Mar-1996
C; Accession: B31263
R; Peterson, D.S.; Walliker, D.; Wellems, T.E.
Proc. Natl. Acad. Sci. U.S.A. 85, 9114-9118, 1988
A; Title: Evidence that a point mutation in dihydrofolate reductase-thymidylate synthase A; Paces ion: B31263
A; Accession: B31263
A; Accession: B31263
A; Reference number: A94217; MUID:89057886
A; Rolecule type: DNA
A; Residues: 1-6 < PET>
C; Keywords: methyltransferase; NADP; oxidoreductase
Search completed: January 14, 2002, 07:44:22 Job time: 408 sec
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A,Status: not compared with conceptual translation
A;Molecule type: DNA
A;Residues: 1-6 <PET>
C;Keywords: methyltransferase; NADP; oxidoreductase
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Maximum Match 100%
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Perfect score:
Sequence:
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P18691 thunnus alb

P14086 gryllus bim

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P25423 melolontha

P14595 tabanus atr

P30369 macropus eu

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WWAMIDE-3.
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01-NOV-1995 (Rel. 32, Last sequence update)
01-NOV-1995 (Rel. 32, Last annotation update)
01-NOV-1995 (Rel. 32, Last annotation update)
MYOTROPIC NEUROPEPTIDE 1 (LED-MNP-1).
Leptinotarsa decemlineata (Colorado potato beetle).
Leptinotarsa decemlineata (Colorado potato beetle).
Leukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insect
Pterygota; Neoptera; Endopterygota; Coleoptera; Polyphaga;
Cucujiformia; Phytophaga; Chrysomeloidea; Chrysomelidae;
Chrysomelinae; Leptinotarsa.
NCBI_TaxID=7539;
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PIR: S33244; S33244.
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MEDLINE=93265912; PubMed=8495720;
Minakata H., Ikeda T., Muneoka Y., Kobayashi M., Nomoto
"WWamide-1, -2 and -3: novel neuromodulatory peptides is
ganglia of the African giant snail, Achatina fulica.";
FEBS Lett. 323:104-108(1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Achatina fulica (Giant African snail).
Eukaryota; Metazoa; Mollusca; Gastropoda; Pulmonata; Stylommatophora;
Achatinacea; Achatinidae; Achatina.
MEDLINE=95380343;
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              PubMed=7651886;
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RESULT 5
BPP7_BOTIN STANDARD; PRT; 5 AA.

ID BPP7_BOTIN STANDARD; PRT; 5 AA.

AC P30425;
DT 01-APR-1993 (Rel. 25, Created)
DT 01-FEB-1994 (Rel. 28, Last sequence update)
DT 01-FEB-1994 (Rel. 28, Last annotation update)
DT 01-FEB-1994 (Rel. 28, Last annotation update)
DE BRADYKININ-POTENTIATING PEPTIDE S5,2 (5A) (ANGIOTENSIN-CONVERTING
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                                             TPIS_CANFA STANDARD; P54714; P54714; O1-OCT-1996 (Rel. 34, Created) O1-OCT-1996 (Rel. 34, Last sequing 15-JUL-1998 (Rel. 36, Last annotation of the company 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE-90351557; PubMed-2386615;
Cintra A.C.O., Vieira C.A., Giglio J.R.;
Primary structure and biological activity of bradykinin pote peptides from Bothrops insularis snake venom.";
J. Protein Chem. 9:221-227(1990).
-i- FUNCTION: THIS PEPTIDE BOTH INHIBITS THE ACTIVITY OF THE ANGIOTENSIN-CONVERTING ENZYME AND ENHANCES THE ACTION OF BRADYKININ BY INHIBITION THE KINASES THAT INACTIVATE IT. IT ACTS AS AN INDIRECT HYPOTENSIVE AGENT.
PIR; G37196; G37196.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Lepidosauria; Squamata; Scleroglossa; Viperidae; Crotalinae; Bothrops.
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MOD_RES 7 7
SEQUENCE 7 AA; 705 MW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Hypotensive agent; Venom. MOD_RES 1 1 1 SEQUENCE 5 AA; 629 MW;
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Bothrops insularis (Island jararaca) (Queimada jararaca)

Bothrops insularis (Thordata; Craniata; Vertebrata; Eute
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  Canis
                            TPI1.
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Peptides 16:365-374(1995).
-!- FUNCTION: MYOTROPIC PEPT
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Pred. No. 1e+05;
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-I- MISCELLANEOUS: ON THE 2D-GEL THE DETERMINED PI OF TH
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Electrophorosis 18:2795-2802(1997).
-1- CATALYTIC ACTIVITY: D-GLYCERALDEHYDE 3-PHOSPHATE "DIHYDROXY-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TISSUE-F1broblast;
MEDLINE-95009907;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-OCT-1994 (Rel. 30, Created)
01-OCT-1994 (Rel. 30, Last sequence update)
01-FEB-1995 (Rel. 31, Last annotation update)
UNKNOWN PROTEIN FROM 2D-PAGE OF FIBROBLASTS (P19) (FRAGMENT).
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Dunn M.J., Corbett J.M., Wheeler C.H.;
"HSC-2DPAGE and the two-dimensional ge
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Mammalia; Eutheria;
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01-NOV-1995 (Rel. 3
01-NOV-1995 (Rel. 3
15-JUL-1998 (Rel. 3
LOCUSTAKININ I
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P18691;
01-NOV-1990
01-NOV-1990
01-NOV-1990
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01-NOV-1990 (Rel. 16, Last sequence update)
01-NOV-1990 (Rel. 16, Last sequence update)
ANGIOTENSIN-CONVERTING ENZYME INHIBITOR.
Thunnus albacares (Yellowfin tuna) (Neothunnus macropterus).
Eukaryota: Metazoa; Chordata; Craniata; Vertebrata; Euteleostom1;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Scombroidei;
Scombridae; Thunnus.
NCBI_TaxID-8236;
                                                                                                                                                      TISSUE-Muscle;
TISSUE-Muscle;
MEDLINE-88326322; PubMed-3415688;
Mafsumoto S., Oka H.,
                                                                                                                      Kohama Y., Matsumoto S., Oka H., Tera "Isolation of angiotensin-converting muscle.";
Biochem. Biophys. Res. Commun. 155:33
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE=Corpora cardiaca;
MEDLLNE=92262851; PubMed=1585017;
Schoofs L., Holman G.M., Proost P., van Damme de Loof A.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Locusta migratoria (Migratory locust).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapo
Pterygota; Neoptera; Orthopteroidea; Orthoptera;
Acridomorpha; Acridoidea; Acrididae; Locusta.
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PIR; A61068; A61068.
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Similarity 100.0%;
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AA; 953
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synthesis.";
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ting enzyme inhibitor
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"The putative a concentrating l dragonfly.";
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P14086;
01-JAN-1990
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P25418;
01-MAY-1992
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MEDLINE-89145002; PubMed-3226948;
Gaede G., Hilbich C., Beyreuther K., Rinehart K.L. Jr.;
Gaede G., Hilbich C., Beyreuther K., Rinehart K.L. Jr.;
"Sequence analyses of two neuropeptides of the AKH/RPCH-family
"Sequence aralyses of two neuropeptides of the AKH/RPCH-family
"Sequence aralyses of two neuropeptides of the AKH/RPCH-family
"Sequence analyses of two neuropeptides of the AKH/RPCH-family
"Sequence analyses of two neuropeptides of the Cardiac Research
"Sequence analyses of two neuropeptides of THE GORPORA
-i- FUNCTION: THIS HORMONE, RELEASED FROM CELLS IN THE CORPORA
DIGLYCERIDES FROM THE FAT BODY AND THEN STIMULATES THE FLIG
MUSCLES TO USE THESE DIGLYCERIDES AS AN ENERGY SOURCE.
-i- SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
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                                                           SEQUENCE, AND SYNTHESIS.
TISSUE=Corpora cardiaca;
MEDNINE=90359055; PubMed=2390213;
                                                                                                                                    ADIPOKINETIC HORMONE (AKH).

Libellula auripennis (Skimmer dragonfly).

Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;

Pterygota; Palaeoptera; Odonata; Anisoptera; Libellulidae; Libellula.
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01-FEB-1994 (Rel. 28, Last seq
01-FEB-1994 (Rel. 28, Last ann
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Total PS00256;

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Biochem. Biophys. Res. Commun. 149:908-914(1987).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ol-JAN-1990 (Rel. 13, Created)
Ol-FEB-1994 (Rel. 28, Last sequence update)
Ol-FEB-1994 (Rel. 28, Last annotation update)
ADIPOKINETIC HORMONE G (AKH-G) (RO II).
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InterPro; IPR002047; AKH.
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MEDLINE=88106553; PubMed=3426616;
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Neuropeptide; Amidation; Flight.
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larity 100.0%;
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                 ancestral peptide of the adipokinetic/red-pigment-hormone family isolated and sequenced from a
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T MOD_RES 1 1 1 PNOD_RES 8 SEQUENCE 8 2
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SPECTIONETTY.";

SPECTION: THIS HORMONE, RELEASED FROM CELLS IN THE CORPORA CARDIAGA AFTER THE BEGINNING OF FLIGHT, CAUSES RELEASE OF DIGLYCERIDES FROM THE FAT BODY AND THEN STIMULATES THE FLICAL DIGLYCERIDES FROM THE FAT BODY AND ENERGY SOURCE.
                    Neuropeptide;
MOD_RES
MOD_RES
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
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                                                                                                                                                                                                                                                                                                                                                                      Gaede G., Lopata A., Kellner R., Rinehart K.L. Jr.; "Primary structures of neuropeptides isolated from the corpora cardiaca of various cetonid beetle species determined by pulsed-liquid phase sequencing and tandem fast atom bombardment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        hormone/red-pigment-concentrating sequenced from two beetle species biochem. J. 275:671-677(1991).
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01-FEB-1994 (Rel. 28, Last sequence up
01-FEB-1994 (Rel. 28, Last annotation
ADIPOKINETIC HORMONE (AKH).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SPECIES=P.marginata; TISSUE=Corpora cardiaca; MEDLINE=92265187; PubMed=1586453;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SPECIES=M.melolontha, and G.stercorosus; MEDLINE=91248100; PubMed=2039445;
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Pterygota; Neoptera; Endopterygota; Coleoptera; Polyphaga
Scarabaeiformia; Scarabaeidae; Melolonthinae; Melolontha
NCBI_TaxID-7061, 7087, 7058;
                                                                                               PROSITE;
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-! FUNCTION: THIS HORMONE, RELEASED FROM CELLS IN THE CORPORA
-! CARDLAÇA AFTER THE BEGINNING OF FLIGHT, CAUSES RELEASE OF
DIGLYCERIDES FROM THE FAT BODY AND THEN STIMULATES THE FLIGHT
MUSCLES TO USE THESE DIGLYCERIDES AS AN ENERGY SOURCE.
-!- SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
PIR; $10596; $10596.
                                                                                                                                                                                            MUSCLES TO USE THESE DIGLYCERIDES AS AN SIMILARITY: BELONGS TO THE AKH / HRTH /
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Amidation; Flight.
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Pred. No.
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1e+05;
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Vogel v.W., Zhang Y.-S., Hayes D.K.;

Vogel v.W., Zhang Y.-S., Hayes D.K.;

Primary structure of two neuropeptide hormones with adipokinetic and hypotrehalosemic activity isolated from the corpora cardiaca of horse flics (Diptera).";

Proc. Natl. Acad. Sci. U.S.A. 86:8161-8164(1989).

-I- FUNCTION: THIS HORMONE, RELEASED FROM CELLS IN THE CORPORA CARDIACA AFTER THE BEGINNING OF FLIGHT, CAUSES RELEASE OF DICLYCERIDES FROM THE FAT BODY AND THEN STIMULATES THE FLIGHT MUSCLES TO USE THESE DIGLYCERIDES AS AN ENERCY SOURCE.
                                                                                                         01-APR-1993 (Rel. 2
01-APR-1993 (Rel. 2
01-OCT-1996 (Rel. 3
CHOLECYSTOKININ (CC
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01-APR-1993
01-OCT-1996
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MOD_RES
SEQUENCE 8 A
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  SEQUENCE.
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01-FEB-1994
                                   Dasyurus viverrinus (Southeastern quoll).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Metatheria; Diprotodontia; Macropodidae; I
NCBI_TaxID-9315, 9279;
                                                                                                                                                                                                                                                                                                                                                                                             MUSCLES TO USE THESE DIGLYCERIDES AS A -1- SIMILARITY: BELONGS TO THE AKH / HRTH PIR; A33995, A33995.
Interpro; IPR002047; AKH.
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Neoptera; Endopterygo
Tabanus.
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HORMONE (AKH) (DIPTERAN CORPORA
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Endopterygota; Diptera; Brachycera; Tabanomorpha;
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P04548;

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13-AUG-1987 (Rel. 05, Created)

01-FEB-1994 (Rel. 28, Last sequence update)

01-FEB-1994 (Rel. 28, Last annotation update)

HYPERTREHALOSAEMIC FACTOR I (NEUROPERTIDE M-I) (PERIPLAN

(PEA-CAH-I) (LED-CC-I) (HYPERTREHALOSAEMIC NEUROPEPTIDE

Periplaneta americana (American cockroach),

Leptinotarsa decemilneata (Colorado potato beetle), and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PIR;
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-i- FUNCTION: THIS PEPTIDE HORMONE INDUCES GALL BLADDER CONTRACTION AND THE RELEASE OF PANCREATIC ENZYMES IN THE GUT. ITS FUNCTION IN THE BRAIN IS NOT CLEAR.

-i- SIMILARITY: BELONGS TO THE GASTRIN/CHOLECYSTOKININ FAMILY.
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                                                                                                                                                                                                                                             MEDLINE-84298179; PubMed=6591205; Scarborough R.M., Jamieson G.C., Kalish F., Kramer S.J. Miller C.A., Schooley D.A.; "Isolation and primary structure of two peptides with cardioacceleratory and hyperglycemic activity from the cardiaca of Periplaneta americana."; Proc. Natl. Acad. Sci. U.S.A. 81:5575-5579(1984).
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SPECLISS-P. americana;
MEDLINE-85046530; PubMed-6548628;
MEDLINE-85046530; PubMed-6548628;
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PROSITE; PS00259; GASTRIN;
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                            beetle and the American cock Peptides 10:1287-1289(1989).
                                                                                                                       SPECIES=L.decemlineata; MEDLINE=90160053; PubMec Gaede G., Kellner R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "Structures of two cockroach neuropeptides bombardment mass spectrometry."; Biochem. Biophys. Res. Commun. 124:350-358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Witten J.L., Schaffer M.H., Rinehart K.L. Jr.;
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                                                                                                                                                                                                                                                                                                                                                                                                                        SPECIES-P.americana;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Blatta orientalis (Oriental cockroach)
                                                                            "The metabolic neuropeptides of the corpus cardiacum from the beetle and the American cockroach are identical.";
                                                                                                                                                                                                    SEQUENCE.
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     SEQUENCE
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1; Conservative
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                                                                                                                                                   neata; TISSUE~Corpora
PubMed=2576128;
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STRIN; 1.
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100.0%;
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AMIDATION.
DDCAA68378768B5A
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Pred. No.
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Gaede G.,

SPECIES=B.orientalis; TISSUE=Corpora cardiaca, MEDLINE=90253659; PubMed=2340112;

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ALD DITTO
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HTF2_PERAM
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                                                                                                       "Isolation and primary structure of two cardioacceleratory and hyperglycemic act cardiaca of Periplaneta americana.";
                                                                                                                                                                                                                                                                                                                                                   SPECIES=P.americana;
MEDLINE-85046530; PubMed=6548628;
Witten J.L., Schaffer M.H., O'Shea
Rinehart K.L. Jr.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SPECIES=L.decemlineata; TISSUE-Corpora cardiaca, MEDLINE, 90160053; PubMed=2576128;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       the corpora cardiaca of the cockroaches Leucophaea maderae, Gromphadorhina portentosa, Blattella germanica and Blatta orientalis and of the stick insect Extatosoma tiaratum assigned by tandem fast
                                                SEQUENCE.
                                                                                                                                                                   Miller C.A.,
                                                                                                                                                                                    Scarborough R.M., Jamieson G.C.,
                                                                                                                                                                                                                                SPECIES=P.americana;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Blattoidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta; Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PIR; A05169;
PIR; S08995;
                                                                                                                                                                                                           MEDLINE=84298179; PubMed=6591205;
                                                                                                                                                                                                                                                          SEQUENCE
                                                                                                                                                                                                                                                                                                Biochem.
                                                                                                                                                                                                                                                                                                                 bombardment mass
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=6978,
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MOD_RES 1 1
                                                                                                                                                                                                                                                                                                                                'Structures of two cockroach neuropeptides assigned
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A44960; A44960.
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1; Conserv
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PS00256; AKH; 1.
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6978, 7539,
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                                                                                                                                                                     Schooley D.A.;
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                                                                                                                                                                                                                                                                                         spectrometry.";
Res. Commun. 124:350-358(1984).
                                                                                    Sci. U.S.A.
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6976;
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Pred. No.
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                                                                                  81:5575-5579(1984)
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                                                                                                                        two peptides with activity from the
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                               TENMO
HTF_TENMO
                                                                                                   "The primary structure of the hypertrehalosemic neuropeptide from tenebrionid beetles: a novel member of the AKH/RPCH family."; peptides 11:455-459(1990).

-i- FUNCTION: HYPERTREHALOSAEMIC FACTORS ARE NEUROPEPTIDES THAT ELEVATE THE LEVEL OF TREHALOSE IN THE HEMOLYMPH (TREHALOSE IS THE MAJOR CARBOHYDRATE IN THE HEMOLYMPH OF INSECTS).

-i- SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
                                                                                                                                                                                                                                                            Tenebrio molitor (Yellow mealworm), and Zophobas rugipes, Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Inse Pterygota; Neoptera; Endopterygota; Coleoptera; Polyphaga Cucujiformia; Tenebrionidae; Tenebrio.

NCBI_TaxID=7067, 7075;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MOD_RES
SEQUENCE
                                                                               PIR;
PIR;
                                                                                                                                                                                                                                                                                                                             01-MAY-1992 (Rel. 22, Created)
01-FEB-1994 (Rel. 28, Last sequence update)
01-FEB-1994 (Rel. 28, Last annotation update)
HYPERTREHALOSAEMIC FACTOR (HOTH) (HYPERTREHALOSEMIC NEUROPEPTIDE).
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PIR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           atom bombardment mass spectrometry.";
Biol. Chem. Hoppe-Seyler 371:345-354(1990).

-i- FUNCTION: HYPERTREHALOSAEMIC FACTORS ARE NEUROPEPTIDES THAT ELEVATE THE LEVEL OF TREHALOSE IN THE HEMOLYMPH (TREHALOSE IS THE MAJOR CARBOHYDRATE IN THE HEMOLYMPH OF INSECTS).

-i- SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaede G., Rinehart K.L., Jr.;

"Primary structures of hypertrehalosaemic neuropeptides isolated from the corpora cardiaca of the cockroaches Leucophaea maderae, Gromphadorhina portentosa, Blattella germanica and Blatta orientalis and of the stick insect Extatosoma tiaratum assigned by tandem fast
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaede G., Kellner R.; "The metabolic neuropeptides of the corpus cardiacum from the potato beetle and the American cockroach are identical."; Peptides 10:1287-1289(1989).
                                                                                                                                                                                                                                                                                                                                                                     P25419;
01-MAY-1992
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  SEQUENCE
                         Neuropeptide;
                                                     PROSITE;
                                                                                                                                                                                                   Gaede G., Rosinski G.;
                                                                                                                                                                                                              TISSUE=Corpora cardiaca; MEDLINE=90341081; PubMed=2381871;
                                                                                                                                                                                                                                       SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Neuropeptide;
MOD_RES
                                                                InterPro;
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PYRROLIDONE CARBOXYLIC AMIDATION. 86745775B9C44736 CRC64;
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Cephalomyotropins.";
Comp. Biochem. Physiol. 84C:205-211(1986).
-I- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).
-I- SIMILARITY: TO THE OTHER LEUCOKININS.
                                                                                                                                        01-MAY-1991 (Rel. 18, Created)
01-MAY-1991 (Rel. 18, Last sequence update)
01-MAY-1991 (Rel. 18, Last sequence update)
01-MAY-1991 (Rel. 18, Last sequence update)
LEUCOKININ II (L-II).
Leucophaea maderae (Madeira cockroach).
Leucophaea maderae (Madeira cockroach).
Leucophaea maderae (Madeira cockroach).
Pterygota; Mectazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Nooptera; Orthopteroldea; Dictyoptera; Blattaria;
Blaberoldea; Blaberidae; Leucophaea.
NCBI_TaxID=6988;
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SEQUENCE
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01-MAY-1991 (Rel. 18, Last annotation update)
LEUCOKINI (L-I).
Leucophaea maderae (Madeira cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blaberoidea; Blaberidae; Leucophaea.
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P21141;
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Cephalomyotropins.";
Comp. Biochem. Physiol. 84C:205-211(1986).
-!- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE ST
ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).
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                                                                 Holman G.M., Cook B.J., Nachman R.J.; "Isolation, primary structure and synthesis of two neuropeptides from Leucophaea maderae: members of a new family of
                                                                                                                                                                                                                                                                                     LEUMA
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Neuropeptide; Amidation. MOD_RES 8 8
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01-MAY-1991
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MOD_RES
SEQUENCE 8 A
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P21142;
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Holman G.M., Cook B.J., Nachman R.J.;
Holman G.M., Cook B.J., Nachman R.J.;
"Primary structure and synthesis of two ad
from Leucophaea maderae: members of a new
Cephalomyotropins.";
Cephalomyotropins.";
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blaberoidea; Blaberidae; Leucophaea.
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01-MAY-1991 (Rel. 18, L
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LEUCOKININ III (L-III).
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MOD_RES 8 8
SEQUENCE 8 AA; 910 MW
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blaberoidea; Blaberidae; Leucophaea.
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DC6365B449C866DA CRC64;
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5_LEUMA
LCK5_LEUMA
P19987;
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"Isolation, primary structure, and synthesis of leucokinins V and V myotropic peptides of Leucophaea maderae.";

Comp. Biochem. Physiol. 88C:27-30(1987).

-i- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACTILE ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).

-i- SIMILARITY: TO THE OTHER LEUCOKININS.
SEQUENCE.
TISSUE=Head;
MEDLINE,=87052651; PubMed=2877794;
                                                                                                                                                                                                                    Leucophaea maderae (Madeira cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
                                                                                                                                                                                                                                                                                                                                         LCK6_LEUMA STANDARD; PRT; 8 AA. P19988; P1998 (Rel. 17, Created) O1-FEB-1991 (Rel. 28, Last sequence update) 30-MAY-2000 (Rel. 39, Last annotation update) LEUCOKININ VI (L-VI).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-FEB-1991 (Rel. 17, Created)
01-FEB-1991 (Rel. 17, Last sequence update)
30-MAY-2000 (Rel. 39, Last annotation update)
LEUCOKININ V (L-V).
Leucophaea maderae (Madeira cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LEUMA
                                                                                                                                                                                         Pterygota; Neoptera; Ort
Blaberoidea; Blaberidae;
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MOD_RES 8 8
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SIMILARITY: TO THE OTHER LEUCOKININS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Σ.
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1; Conser
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1; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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100.0%;
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DC6365B1E9D5BDDA CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AMIDATION.
736365A5B9C865B8 CRC64;
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0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0;
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Pred. No.
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1e+05;
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1e+05;
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Me
Pterygota; Ne
Blaberoidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LCK7_LEUMA
P19989;
01-FEB-1991
                      ICCK8_LEUMA STANDARD; PRT; P1990; P1990; O1-FEB-1991 (Rel. 17, Created) O1-FEB-1991 (Rel. 17, Last sequence up O1-FEB-1991 (Rel. 17, Last annotation LEUCOKININ VIII (L-VIII).
                                                                                                                                                                                                                                                                                                    "Isolation, primary Structure and Synthesis of leucokinins VII VIII: the final members of this new family of cephalomyotropic peptides isolated from head extracts of Leucophaea maderae."; Comp. Biochem. Physiol. 88C:31-34(1987).

-i- FUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACT ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).

-i- SIMILARITY: TO THE OTHER LEUCOKININS.

PIR: JS0317; JS0317.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MOD_RES
MOD_RES
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LEUCOKININ VII (L vii).
Leucophaea maderae (Madeira cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Eukaryota; Metazoa; Arthropoda; Dictyoptera; Blattaria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Isolation, primary structure, and Synthesis of leucokinins V and V "Isolation, primary structure, and Synthesis of leucokinins V and V myotropic peptides of Leucophaea maderae.";

Comp. Biochem. Physiol. 88C:27-30(1987).

- PUNCTION: THIS CEPHALOMYOTROPIC PEPTIDE STIMULATES CONTRACTILE ACTIVITY OF COCKROACH PROTODEUM (HINDGUT).

- SIMILARITY: TO THE OTHER LEUCOKININS, AND TO MANDUCA SEXTA AND
  Leucophaea
Eukaryota;
                                                                                                                                                                                                                                                                   Neuropeptide; Amidation.
MOD_RES 8 8
SEQUENCE 8 AA; 866 MW
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LEUMA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=6988;
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maderae (Madeira cockroach).
Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
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                                                                                                                                                                                                         Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Blaberidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STANDARD;
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100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Last annotation
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DC6365A5B9CDC76A CRC64;
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                                                                                                                                                                                                                   Score 11;
Pred. No.
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Pred. No.
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1e+05;
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OC Pteryýota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
OC NCBL_TaxID=6988;
RN [1]
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RA Holman G.M., Cook B.J., Nachman R.J.;
RA Holman G.M., Cook B.J., Nachman R.J.;
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Listing first 50 summaries
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SPTREMBL_17:*

1: sp_archea:*
2: sp_bacteria
3: sp_fungl:*
4: sp_human:*
5: sp_inverteb
6: sp_mammaal:*
7: sp_mhc:*
8: sp_organel1:
9: sp_plant:*
10: sp_plant:*
11: sp_rodent:
12: sp_vrus:*
13: sp_vortebr:
14: sp_unclass
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1 wrxxafxg 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GenCore version 4.5 Copyright (c) 1993 - 2000 Compugen Ltd.
                                                                           sp_organelle:*
sp_phage:*
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sp_fungi:*
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sp_vcrtebrate:*
sp_unclassified:*
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sp_virus:*
                                                            sp_plant:*
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14.600 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                         352
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

SUMMARIES

Result

Ö

Score	Query Match Len	Length C	DB	ID	Description
18	51.4	8	2	009258	009258 synechococc
16	45.7	89	11	Q62721	₩.
13	37.1	7	œ	Q95945	Q95945 saccharomyc
13	37.1	œ	σ	P82929	
12	34.3	œ	11	P70243	P70243 mus musculu
12	34.3	8	11	Q9QVD3	
11	31.4	6	ij	P82096	
11	31.4	7	10	049223	O49223 glycine max
11	31.4	7	13	P82065	P82065 litoria rub
11	31.4	œ	Ν	085406	O85406 coxiella bu
11	31.4	8	4	Q15888	Q15888 homo sapien
11	31.4	8	4	Q15890	Q15890 homo sapien
11	31.4	8	G	Q9VRD2	Q9vrd2 drosophila
11	31.4	8	տ	P82685	P82685 periplaneta
11	31.4	œ	G	P82686	P82686 periplaneta
11	31.4	89	U	P82687	P82687 periplaneta
11	31.4	8	თ	P82688	P82688 periplaneta
11	31.4	8	v	P82689	P82689 periplaneta
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P82070	Q83977	Q99MH2	P82324	Q9S8Z4	Q9GCZ4	Q9GD00	Q9GD47	Q95213	Q9нсQ0	P87225	Q9R9C2	098443	Q56759	052062	007354	Q9TWH6	Q98YK9	Q9JLD7	Q15903	Q98TU5	P79940	Q99MN0	Q9ET16	Q9ET17	Q9ET18	P82598	035835	Q9T4Y2	Q9TD02	Q9TRY3
	Q83977 influenza a			4 spina	n	masoa		_		P87225 saccharomyc	Q9r9c2 borrelia bu	Q9s443 pseudomonas	Q56759 xanthobacte					Q9jld7 mesocricetu			P79940 xenopus lae	Q99mn0 mus musculu	Q9et16 mesocricetu	Bum	Q9et18 mus spretus	P82598 rattus norv	rattus r	Q9t4y2 asterina pe	td02 terra	Q9try3 sus sp. ins

ALIGNMENTS

RESULT Q62721 ID Q6 AC Q6 DT 01 DT 01 RESULT 009258 B Query Match 51.4%; Best Local Similarity 57.1%; Matches 4; Conservative Q62721 PRELIMINARY; Q62721; Q1-NOV-1996 (TrEMBLrel. 01, Q1-NOV-1996 (TrEMBLrel. 01, Submitted (MAY-1997) to the EMBL/GenBank/DDBJ databases. EMBL; AF001780; AAC33369.1; -. NON_TER 8 8 O09258; PRELIMINARY; PRT; 8 AA. 009258; O1-JUL-1997 (TrEMBLrel. 04, Created) 01-JUL-1997 (TrEMBLrel. 04, Last sequence update) 01-AUG_1998__(TrEMBLrel. 07, Last annotation update) SEQUENCE 8 AA; 985 MW; F16B59CDD046C406 CRC64; Chen H.; Synechococcus sp. (strain PCC 8801 / RF-1) (Cyanothece PCC 8801). Bacteria; Cyanobacteria; Chroococcales; Cyanothece. STRAIN=RF-1; SEQUENCE FROM N.A. NIFH NIFH (FRAGMENT). NCBI_TaxID=41431; 2 RQIAFYG 2 rxxafxg 8 8 Score 18; DB 2; Pred. No. 4.7e+05; 0; Mismatches 3 PRT; DB 2; Length 8; AA. Indels 0; Gaps

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MEDLINE-81069885; PubMed-6254986;
Bonitz S.G., Coruzzi G., Thalenfeld B., Tzagoloff A., Macino (
"Assembly of the mitochondrial membrane system. Structure and 
"Assembly of the dene coding for subunit 1 of yeast
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                                                                                                                                                                                                                                                                                                                                                                SEQUENCE
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EMBL; V00694; CAA24066.1;
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Altus M.S., Wood C.M.,
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C.M., Stewart D.A., R
ns G.A., Danner D.B.,
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Pred. No. 4.7e+05;
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Dell'Orco
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Rattus sp.
Rattus sp.
Eukaryota; Metazoa; C
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Q9QVD3;
Q1-MAY-2000 (TrEMBLrel. 13, Created)
Q1-MAY-2000 (TrEMBLrel. 13, Last sequence update)
Q1-MAY-2000 (TrEMBLrel. 13, Last annotation update)
Q1-MAY-2000 (TrEMBLrel. 13, BINDING PROTEIN.
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SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                      Mus musculus (Mouse).
Mus musculus (Mouse).
**rvota; Metazoa; Chordata;
**heria; Rodentia;
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EMBL; X98325; CAA66969.1;
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                                                                                                                                                                                                                                                                              Calcium channel
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                                                                                                                                                                                                                                                                                                                        STRAIN=129;
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Mammalia; Eutheria; Cetartiodactyla;
Bovidae; Bovinae; Bos.
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Pred. No. 4.
      Craniata; Vertebrata; 1
Sciurognathi; Muridae;
                                                                                                                                                                                                                                                                                                                                                                Craniata; Ver
Sciurognathi;
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4.7e+05;
                    Vertebrata; Euteleostomi;
                                                                                                                                                                                                              DB 11;
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Murinae; Mus
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          Murinae;
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Identification
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          Rattus.
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                                                              Glycine max (Soybean).

Eukaryota; Viridiplantae; Streptophyta; Embryc Spermatophyta; Magnoliophyta; eudicotyledons; curosids I; Fabales; Fabaceae; Papilionoideae; NCBI_TaxID=3847;
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TISSUE-SKIN SECRETION;
Wabnitz P.A., Bowie J.H., Tyler M.J.,
"Peptides from the skin glands of the
Litori electrica. Comparison with the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Kancmatsu T., Takeya H., Watanabe Y., Ozaki S., Yos Twanaga S., Hirata M.;
"Putanaga S., Hirata M.;
"Putanaga S., Hirata M.;
"Putanaga S., Hirata M.;
Takeya H., Watanabe Y., Ozaki S., Yos Twanaga S., Ozaki S., Yos Twanaga S., Ozaki S., Yos Twanaga S., Ozaki S., Yos Twanaga S., Ozaki S., Yos Twanaga S., Ozaki S., Yos Twanaga S., Ozaki S., Yos Twanaga S., Ozaki S., Yos Twanaga S., Ozaki S., Yos Twanaga S., Ozaki S., Yos Twanaga S., Ozaki S., Yos Twanaga S., Ozaki S., Yos Twanaga S., Ozaki S., Yos Twanaga S., Ozaki S., Yos Twanaga S., Ozaki S., Yos Twanaga S., Ozaki S., Yos Twanaga S., Hirata M.;

"Putanaga S., Hirata M.;
"Ozaki S., Yos Twanaga S., Hirata M.;
"Putanaga S., Hirata M.;
"Ozaki S., Ozaki S., Yos Twanaga S., Hirata M.;
"Putanaga EQUENCE FROM N.A. STRAIN CV. ESSEX; MEDLINE-91367679;
                                                                                                                                                                            Ol-JUN-1998 (TrEMBLrel. 06, Created)
Ol-JUN-1998 (TrEMBLrel. 06, Last sequence update)
Ol-NOV-1998 (TrEMBLrel. 08, Last annotation update)
HMG-1-LIKE PROTEIN (FRAGMENT).
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Amphibla; Batrachia;
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Eukaryota; Metazoa; Chordata; Craniata;
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  TISSUE-ROOTS;
PubMed-1891369;
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Australian buzzing
skin peptides from
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Best Local S
Matches 1
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Steinborner S.T., Wabbitz P.A., Waugh R.J., Bowie J.H.,

A Tyler M.J., Wallace J.C.;

"The structure of new peptides from the Australin red to the structure of new peptides from the Australin red to the structure of new peptides from the Australin red to the structure of new peptides from the Australin red to the structure of new peptides from the Australia red to the structure of new peptides."

Laust. J. Chem. 49:955-963(1996).

-i- FUNCTION: MAY ACT AS A NEUROMODULATOR OR NEUROTRASS C-I- MASS SPECTROMETRY: SECRETED BY THE SKIN DORSAL GLZ -I- MASS SPECTROMETRY: MW-965; METHOD-FAB.

Amphibian skin; Amidation; Neuropeptide.

MOD_RES 1 1 PYRROLIDONE CARBOXYLIC AC1 MOD_RES 1 1

MOD_RES 7 AA; 983 MW; 7401E9D3676046B0 CRC64;
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Best Local
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O85406; PRELIMINARY; O85406; O85406; O1-NOV-1998 (TrEMBLrel. 08, Caroli-NOV-1998 (TrEMBLrel. 08, Laston-NOV-1998 (Tremblarel. 1), Coxiella burnetii.
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P82065;
01-MAY-2000 (TremBLrel. 13, C
01-MAY-2000 (TremBLrel. 13, L
01-MAY-2000 (TremBLrel. 13, L
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Eukaryota; Metazoa; Chordata; Craniata; Ve
Amphibia; Batrachia; Anura; Neobatrachia;
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Submitted (FEB-1998) to the EMBL/GenBank/DDBJ databases
EMBL; AF047050; AAC03556.1; -.
NON_TER 1
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"A plant DNA binding protein shares highly conserved sequence with HMG-box proteins.";
Nucleic Acids Res. 19:4769-4769(1991).
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STRAIN-CV. ESSEX; TISSUE-ROOTS;
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4.7e+05;
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4.7e+05;
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Best Local
                             Homo sapiens (Human).
Eukaryota; Metazoa; C
Maamalia; Eutheria; P
NCDI_TaxID=9606;
                                                                                                      Q15890;
Q15890;
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SEQUENCE
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Q15888;
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Willems H., Jaeger C., Baljer G.;
TISSUE-PLACENTA;
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Lee C.C., Yazdan
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Mammalia; Eutheria;
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NCBI_TaxID=777;
         SEQUENCE FROM N.A
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                                                                                                               PRELIMINARY;
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Primates;
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100.0%;
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Pred. No.
                                      Catarrhini;
                                              Craniata; Vertebrata; Euteleostomi;
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               RA Ballew R.M. Basu A., Bat. B., Saynaktaroglu C., Batlewin, RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M., RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S., RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P., RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I., RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I., RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P., M., Cawley S., Dahlke C., Davenport L.B., Davies P., M., Cawley S., Dahlke C., Davenport L.B., Davies P., M., Dough J.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P., RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P., RA Glodek A., Gong F., Gorrell J.H., Gu Z., Gelbart W.M., Glasser K., RA Glodek A., Gong F., Gorrell J.H., Gu Z., Gelbart W.M., Glasser K., RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J., RA Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C., RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A., Li X., Mattel B., McIntosh T.C., McLeod M.P., McPherson D., Lai Z., Liang Y., Lin X., RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X., RA Liu X., Mattel B., McIntosh T.C., McLeod M.P., McPherson D.L., McLeod M.P., McShrefi A., RA Melson D.R., Nelson K., Naveris J., Moshrefi A., RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G., RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G., RA Shue B.C., Siden Kiamos I., Simpson M., Skupski M.P., Smith T., RA Shue B.C., Siden Kiamos I., Stapleton M., Skupski M.P., Smith T., RA Shue B.C., Stapleton M., Skupski M.P., Smith T., RA Wang Z.-Y., Wassarman D.A., Weinstock G.M., Weissenbach J., RA Wang Z.-Y., Wassarman D.A., Weinstock G.M., Weissenbach J., Wang X., Zhou X., Zhao Q., Zheng L., Ra Zhao Y., Zhong F.N., Zhong W., Zhou X., Zhu X., Smith H.O., Ra Zhao Y., Zhong S., Zhon W., Zhong S., Zhon X., Zhon X., Zhon X., Zhon X., Zhon X., Zhon X., Zhon X., Zhon X., Zhon X., Z
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Q9VRD2;
01-MAY-2000
01-MAY-2000
01-MAY-2000
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muso:
Ephydroidea; Drosophilidae; Drosophila.
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Hum. Mol. Gene
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L32083; AAA73880.1;
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EMBL; AEO03569; AAF50870.1; -
FlyBasc; FBgn0040648; CG11666.
SEQUENCE 8 AA; 1062 MW; ED1185E
                                                                                                                         Poriplaneta americana (American cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Bla
Blattoidea; Blattidae; Periplaneta.
NCBI_TaxID-6978;
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MEDLINE-98010462; PubMed-9350979;

MEDLINE-98010462; PubMed-9350979;

Prodel R., Kellner R., Rapus J., Penzlin H., Gaede G.;

"Isolation and structural elucidation of eight kinins from

"Isolation and structural elucidation of eight kinins from

"Estrocerebe".
                        TISSUE-CORPORA CARDIACA;
MEDLINE-98010462; PubMed-9350979;
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MOD_RES 8 8
SEQUENCE 8 AA; 950 MW.
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Regul. Pept. 71:199-205(1997).
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta
Pterygota; Ncoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blattoidea; Blattidae; Periplaneta.
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                                                                              SEQUENCE, AND FUNCTION
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-!- SIMILARITY: BELONGS TO THE
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J., Penzlin
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01-MAR-2001 (TrEMBLrel. 16, L:
01-MAR-2001 (TrEMBLrel. 16, L:
KININ-4 (PEA-K-4).
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Regul. Pept. 71:199-205(1997).
-i- FUNCTION: MEDIATES VISCERAL MUSCLE CONTRACTILE
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TISSUE=CORPORA CARDIACA;
MEDLINE=98010462; Pubmed=9350979;
Predel R., Kellner R., Rapus J., Penzl
"Isolation and structural elucidation"
Periplaneta americana (American cockroach).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Bl.
Blattoidea; Blattidae; Periplaneta.
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MOD_RES 8 8 8
SEQUENCE 8 AA; 856 MW
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Regul. Pept. 71:199-205(1997).
-i- FUNCTION: MEDIATES VISCERAL MUSCLE CONTRACTILE ACTIVITY
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-!- SIMILARITY: BELONGS TO
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-!- SIMILARITY: BELONGS TO THE KININ FAMILY
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MOD_RES 8 8
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Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Orthopteroidea; Dictyoptera; Blattaria;
Blattoidea; Blattidae; Periplaneta.
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-!- SIMILARITY: BELONGS TO THE KININ FAMILY.
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SEQUENCE, AND FUNCTION
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TYPE III COLLAGEN PROTEIN (FRAGMENT).
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01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAY-2000 (TrEMBLrel. 13, Last annotation update)
CYTOCHROME C OXIDASE SUBUNIT I (FRAGMENT).
Terranatos dolichopterus.
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Shimasaki S., Gao L., Shimonaka M., Ling N.;
"Isolation and molecular cloning of insulin-like
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Oryctolagus cuniculus (Rabbit).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygil; Neopterygil; Teleostei; Euteleostei; Neoteleostei Acanthomorpha; Acanthopterygil; Percomorpha; Atherinomorpha; Cyprinodontiformes; Aplocheilidae; Rivulinae; Terranatos.
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MEDLINE-89354669; PubMed-2766382;

MEDLINE-89354669; PubMed-2766382;

Jacobs H.T., Assakawa S., Araki T., Miura K., Smith M.J., Wa

"Conserved trNA gene cluster in starfish mitochondrial DNA.

Curr. Genet. 15:193-206(1989).

EMBL; X16886; CAA34767.1; ...
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Hrbek T., Larson A.;

Hrbek T., Larson A.;

"The evolution of diapause in the killifish family Rivulidae

"The evolution of diapause in the killifish family Rivulidae

(Atherinomorpha, Cyprinodontiformes): A molecular phylogenetion

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Eukaryota; Metazoa; Chordata;
Mammalla; Eutherla; Rodentia;
NCBI_TaxID-10116;
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                                         MEDLINE=98008057; PubMcd-9581555; Hospital V., Prat A., Joulie C.,
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Asteroidea; Valvatacea; Valvatida;
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Asterinidae;
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01-OCT-2000
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Taylor B.A., Whek C., Phillips S.J.; "Multiple obesity OTLs identified in an intercross between (New Zealand obese) and the SM (small) mouse strains."; Submitted (JUL-2000) to the EMBL/GenBank/DDBJ databases. EMBL; AF286200; AAG01474.1; ".
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SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                      "Purification and characterization of a novel in proliferation of hepatic stellate cells.";
J. Biochem. 127:23-27(2000).
-!- FUNCTION: MAY ACT AS A NEGATIVE EFFECTOR IN HEPATIC STELLATE CELLS (HSC). ALSO INHIBITS ENDOTHELIAL CELLS AND 3T6 FIBROBLASTS.
-!- SIMILARITY: IDENTICAL TO THE 63-70 AA REGION
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EMBL, X93208; CAAG3695.I; -.
SEQUENCE 8 AA; 886 MW; EA7EA1B1ADC5A5B6 CRC64;
                                                                                             Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=10096;
                                                                                                       Mus spretus (Western wild mouse).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRAIN-SPRAGUE-DAWLEY; TISSUE-LIVER; MEDLINE-20198203; PubMed-10731662; Kim K.-Y., Choi I., Kim S.-S.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Rattus norvegicus (Rat).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
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01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
38kDA NON-ARGINASE GROWTH INHIBITORY FACTOR (NAGIF)(FRAGMENT).
                                                                                                                                           01-MAR-2001 (TrEMBLrel. 16, 01-MAR-2001 (TrEMBLrel. 16, 01-MAR-2001 (TrEMBLrel. 16, NEUROPEPTIDE Y (FRAGMENT).
                                                            STRAIN-SPRET/EI;
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7.357 Million cell updates/sec
Claudin-3 cell adh
Claudin-3 cyclic c
Claudin-4 cell adh
Claudin-6/9 cell a
Claudin-6/9 cyclic
Claudin cell adhes
Claudin-3 cell adh
Claudin-3 cyclic c
Claudin-4 cell adh
Claudin-4 cell adh
                                                                                                                                                                                                                                                                                    Description
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AAB06583
         Claudin-3 cell adhesion recognition sequence SEQ ID NO: 58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAB06583;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAB06583 standard; peptide;
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ranarii-2 c	21 MABOO / 2			
landin-	21 AAR0672	0.0		
udin-5 c	8 21 AAB06706	00.0	27	2 2
laudin-1 c	21 AAB0647	0.0		
laudin-1 c	21 AAB0641	0.0		
laudin-5	21 AAB0675	0.0		5
aludin-5 c	21 AAB0670	0.0		
laudin-5 c	21 AAB0675	0.0		
laudin-5 c	21 AAB0670	0.0		
laudin-6/9	21 AAB0680	2.9		
laudin-6/9	21 AAB0679	2.9		40
laudin-6/9	21 AAB0678	2.9		
laudin-6/9	21 AAB0677	2.9		
laudin-6/9	21 AAB0677	2.9		
laudin-6/9	21 AAB0681	2.9		
laudin-6/9	21 AAB0676	2.9		
laudin-6/9	21 AAB0681	2.9		
laudin-6/9	21 AAB0676	2.9		
laudin-1	21 AAB0651	8.6		
laudin-1 ce	21 AAB0642	8.6		Н
laudin-8 ce	21 AAB0691	1.4		
laudin-8	21 AAB0689	1.4		
laudin-8 cel	21 AAB0687	1.4		
laudin-4 cyc	21 AAB0668	1.4		
laudin-4	21 AAB0667	1.4		
laudin-4 cyc	21 AAB0667	1.4		رب ر
laudin-4 cyc	21 AAB0666	1.4		
laudin-4	21 AAB0665	1.4		
laudin-3 cyc	21 AAB0662	1.4		
laudin-3 cyc	21 AAB0661	1.4		
laudin-3	21 AAB0660	1.4		
laudin-	21 AAB0659	1.4		
laudin-3	21 AAB0659	1.4		8
laudin-2	21 AAB0657	1.4		7
laudin-2 ce	21 AAB0652	1.4		
laudin-4 cy	21 AAB0669	1.4		ഗ
laudin-4 ce	21 AAB0664	1.4		4
laudin-3 cy	21 AAB0663	1.4		ω
laudin-3	21 AAB0658	1.4		2

ALIGNMENTS

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(first entry)

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Claudin-3 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection.
   Blaschuck OW,
                                                                          03-NOV-1998;
30-MAR-1999;
                                                                                                                               03-NOV-1999;
                                                                                                                                                                    11-MAY-2000
                                                                                                                                                                                                         WO200026360-A1
                                                                                                                                                                                                                                              Mammalia
                                     (ADHE-) ADHEREX TECHNOLOGIES INC
                                                                        98US-0185908
99US-0282029
Symonds JM,
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   Gour BJ;
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RESULT
AAB06636
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           The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-3 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant
                                                                                                                                                                                                   WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                         graft
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     and
                                                                                                                Claim 55;
                                                                                                                                                                                                                             Blaschuck OW,
                                                                                                                                                                                                                                                                                   03-NOV-1998;
30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 52; Page 99; 121pp; English
                                                                                                                                                     Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system
                                                                                                                                                                                                                                                                                                                                                        11-MAY-2000
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                                                                                                                                                                                                                                                                                                                                                                                                               Mammalia
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                                                                                                                                                                                                                                                                                                                                                                                                                                         rejection;
                                                                                                              Page 100; 121pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        autoimmune disease; inflammatory disease;
                                                                                                                                                                                                                                                                                   98US-0185908.
99US-0282029.
                                                                                                                                                                                                                             Symonds
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62.5%;
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can also
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Pred. No. 4.3e+05;
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be used
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Best Local Similarity
Matches 5; *Conser
                                                                                                                       The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-4 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
                                                                                                                                                                                                                                                                                                                                                                                                                                                   CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection.
                                                                                                                                                                                                                              Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys and across the skin - \,
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                                                                                           Sequence
                                                                                                                                                                                                          Claim 58; Page 100; 121pp; English.
                                                                                                                                                                                                                                                                                             Blaschuck OW,
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99US-0282029.
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62.5%;
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Pred. No. 4.
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No. 4.3e+05;
                                  DB 2+
4.3e+05;
3;
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Best Local
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         Claudin-6 modulating agent; claudin-9 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection.
                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-4 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, can be used to modulate these levels, and thus treat autoimmune diseases.
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                                                                 Claudin-6/9 cell adhesion recognition sequence SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 61; Page 101; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    and across the skin -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system
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30-MAR-1999;
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                                                                                           28-SEP-2000 (first entry)
                                                                                                                                                AAB06764 standard; peptide; 8 AA
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Matches 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-6 and claudin-9 groups of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and ald wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin - \,
                                                                                                                                                                                              Claudin-6 modulating agent; claudin-9 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection; cyclic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 70; Page 103; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Blaschuck OW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            03-NOV-1999;
                                                                                                                                                                                                                                              Claudin-6/9 cyclic cell adhesion recognition sequence SEQ ID NO: 385.
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          Blaschuck OW,
                                                          03-NOV-1998;
30-MAR-1999;
                                                                                               03-NOV-1999;
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                                                                                                                                               WO200026360-A1
                                                                                                                                                                        Mammalia
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                                                                                                                                                                                                                                                                                                AAB06814;
                                                                                                                                                                                                                                                                                                                        AAB06814 standard; peptide;
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                                 (ADHE-) ADHEREX TECHNOLOGIES INC
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99US-0282029
          Symonds JM,
                                                          98US-0185908
99US-0282029
                                                                                               99WO-CA01029
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50.0%;
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Pred. No. 4.3e
1; Mismatches
            Gour BJ;
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4.3e+05;
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2000-365610/31

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RESULT
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-6 and claudin-9 groups of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present
           Claim 71;
                                 and across
                                           Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
                                                                               WPI; 2000-365610/31
                                                                                                       Blaschuck OW,
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30-MAR-1999;
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                                                                                                                                                                                                                                                                            Modified-site
                                                                                                                                                                                                                                                                                                                                     Synthetic
                                                                                                                                                                                                                                                                                                                                                                          CAR
                                                                                                                                                                                                                                                                                                                                                                                                             Claudin cell
                                                                                                                                                                                                                                         WO200026360-A1
                                                                                                                                                                                                                                                                                                                                                                                  Claudin modulating agent; cell adhesion recognition sequence;
                                                                                                                                                                                                                                                                                                                                                                                                                                   05-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAB06916 standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 73; Page 104; 121pp; English.
                                                                                                                               (ADHE-) ADHEREX TECHNOLOGIES INC
                                                                                                                                                                                                                                                                                                                Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAB06916;
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                                                                                                                                                                                                                                                                                                 Modified-site
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wkvtafig
                                                                                                                                                                                                                                                                                                                                                            rejection.
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         Page 103; 121pp; English
                                 the skin
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                                                                                                                                                                                                                                                                                                                                                                       autoimmune disease; inflammatory disease;
                                                                                                       Symonds
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                                                                                                                                                     98US-0185908.
99US-0282029.
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50.0%;
                                                                                                       JM,
                                                                                                                                                                                                                                                                                      "N-terminal acetyl"
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4.3e+05;
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Query Match Best Local Matches

Similarity 4; Conserv

Conservative

0;

Score 25; DB 21; Pred. No. 4.3e+05; 0; Mismatches 2

Length 6;

Indels

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Gaps

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71.4%; 66.7%;

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RESULT AABOG581 ID
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                                                                                                                                                                                                                                           The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-3 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides
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        Sequence
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                                                                                        to the desired target site.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 52; Page 99; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2000-365610/31.
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99US-0282029.
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sease; inflammatory disease;
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1; Mismatches
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4.3e+05;
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                                                                                                                                                                                                                  autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               n for increasing the nervous sys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sequence;
e; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  56.
                                                                                                                                                               implant
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RESULT 10
AAB06643
ID AAB066
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AC AAB066
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DT 28-SEP
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                                                                                                                                                                      Query Match
Best Local S
Matches 4
                                                                                                                                                                                                                                                                The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-3 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
               28-SEP-2000
                                     AAB06643;
                                                                                                                                                                                                                                                                                                                                                                             Claim 55; Page 100; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                 Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Blaschuck OW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               03-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             graft rejection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claudin-3 modulating agent; cell adhesion recognition sequence;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claudin-3 cyclic cell adhesion recognition sequence SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-SEP-2000 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAB06634 standard; peptide;
                                                            AAB06643 standard;
                                                                                                                                                                                                                                Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (ADHE-) ADHEREX TECHNOLOGIES INC.
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                                                                                                                                                                                                                                                        conformation.
                                                                                                                      1 wrxxaf 6
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1 wrvsaf 6
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| wrvsaf 6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sequence;
                                                                                                                                                                      Similarity
4; Conserv
                                                                                                                                                                                                                                6 AA;
                                                                                                                                                                       Conservative
            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Symonds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            98US-0185908.
99US-0282029.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cyclic.
                                                           peptide;
                                                                                                                                                                                71.48;
66.78;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gour BJ
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                                                            6
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                                                                                                                                                                                 Score 25;
Pred. No.
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                                                                                                                                                                       Mismatches
                                                                                                                                                                                 DB 21;
4.3e+05;
                                                                                                                                                                                           Length 6;
                                                                                                                                                                       Indels
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RESULT :
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Best Local Similarity
Matches 4; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-4 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and ald wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site.
                                                                                                                          graft
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mammalia.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claudin-4 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claudin-4 cell adhesion recognition sequence
                                                                                                                                       Claudin-4 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                            Claudin-4 cyclic cell adhesion recognition sequence SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 58; Page 100; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2000-365610/31
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30-MAR-1999;
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                                                                                                                                                                                                                              AAB06696;
                                                                                                                                                                                                                                                    AAB06696 standard; peptide; 6
                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      and across the skin
                         03-NOV-1999;
                                                 11-MAY-2000.
                                                                          WO200026360-A1
                                                                                                   Mammalia
                                                                                                                                                                                                      28-SEP-2000
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                                                                                                                                                                                                                                                                                                                   1 wrxxaf 6
|| ||
1 wrvtaf 6
                                                                                                                                                                                                                                                                                 11
                                                                                                                           rejection;
                                                                                                                                                                                                                                                                                                                                                                                                                                     6 AA;
                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Symonds JM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  98US-0185908
99US-0282029
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                         99WO-CA01029.
                                                                                                                          cyclic.
                                                                                                                                                                                                                                                                                                                                                                                 71.48;
66.78;
                                                                                                                                                                                                                                                                                                                                                                     Score 25; DB Pred. No. 4.3e 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gour
                                                                                                                                                                                                                                                                                                                                                                                  DB 21;
4.3e+05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ
                                                                                                                                                                                                                                                                                                                                                                                             Length 6
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03-NOV-1998;

98US-0185908

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RESULT :
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Best Local Similarity
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         Claim
                                                                          WPI; 2000-365610/31
                                                                                                                                                                            03-NOV-1999;
                                                                                                                                                                                                                        WO200026360-A1
                                                                                                                                                                                                                                                                   graft
                                                                                                                                                                                                                                                                            Claudin-3 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                             Claudin-3 cell adhesion recognition sequence SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI;
                                                  Antibody modulation of claudin-mediated cell adhesion for increasing
                                                                                                Blaschuck OW,
                                                                                                                                             03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                 11-MAY-2000.
                                                                                                                                                                                                                                              Mammalia.
                                                                                                                                                                                                                                                                                                                                                          AAB06582;
                                                                                                                                                                                                                                                                                                                                                                             AAB06582 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 61; Page 101; 121pp; English.
                                        vasopermiability,
                                                                                                                      (ADHE-) ADHEREX TECHNOLOGIES INC
                                                                                                                                                                                                                                                                                                                                    28-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            conformation.
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1 wrvtaf 6
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                               across the skin
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         52;
                                                                                                                                                                                                                                                                  rejection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4;
        Page 99; 121pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ΑA;
                                                                                                Symonds
                                                                                                                                            98US-0185908.
99US-0282029.
                                                                                                                                                                            99WO-CA01029
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                                        for delivering drugs to
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66.7%;
                                                                                                JM,
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                                                                                                Gour BJ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0;
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Pred. No. 4.3e+05;
0; Mismatches 2
                                         tumors and the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 6;
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                                                                                                                                                                                                                                                                                                              57.
                                         nervous
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0;
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AAB06635
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Best Local :
                                        The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-3 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-3 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired these levels.
Sequence
                                                                                                                                                                                                                                                                                                                                                                         03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CAR sequence;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claudin-3 modulating agent;
                                conformation.
                                                                                                                                                                                    Claim 55; Page 100; 121pp; English.
                                                                                                                                                                                                                    and across the skin -
                                                                                                                                                                                                                               Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
                                                                                                                                                                                                                                                                               WPI; 2000-365610/31.
                                                                                                                                                                                                                                                                                                               Blaschuck OW,
                                                                                                                                                                                                                                                                                                                                            (ADHE-) ADHEREX TECHNOLOGIES INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             graft rejection; cyclic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claudin-3 cyclic cell adhesion recognition sequence SEQ ID NO: 268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAB06635;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAB06635 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    13
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AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ulating agent; cell adhesion recognition s autoimmune disease; inflammatory disease;
                                                                                                                                                                                                                                                                                                              Symonds
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99US-0282029.
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66.78;
                                                                                                                                                                                                                                                                                                            JM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 25; DB
Pred. No. 4.3e
0; Mismatches
                                                                                                                                                                                                                                                                                                               Gour BJ;
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4.3e+05;
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Query Match Best Local Similarity

71.4%; 66.7%;

Score 25; DB 21; Pred. No. 4.3e+05;

Length

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AAB06697
ID AABC
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AC AABC
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AC AABC
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Best Local S
Matches 4
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                                 AAB06697;
                                                                                                                                                                                                                                                                                                                                                                Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin - \,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claudin-4 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claudin-4 cell adhesion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAB06644 standard; peptide;
           28-SEP-2000
                                                                                                                                                                                                                                                                                                                                          Claim 58; Page 100; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                    Blaschuck OW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 03-NOV-1999;
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                                                        AAB06697 standard;
                                                                                                                                                                                                                  Sequence
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                                                                                                                                                                                                                  AA;
           (first entry)
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99US-0282029
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                                                       peptide;
                                                                                                                                                                    71.48; 66.78;
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Pred. No.
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                                                                                                                                                          Mismatches
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4.3e+05;
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                                                                                                                                                                              Length 7;
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Best Local S
Matches 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-4 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoLummune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claudin-4 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 61; Page 101; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mammalia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         graft rejection; cyclic.
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                                                                                                                       graft
                                                                                                                                    Claudin-2 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                            Claudin-2 cell adhesion recognition sequence SEQ ID NO: 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  and across the skin -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system
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30-MAR-1999;
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                                                                                                                                                                                                                                                             AAB06521 standard; peptide;
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99US-0282029
              99WO-CA01029
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0; Mismatches
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4.3e+05;
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RESULT 17
AAB06574
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Best Local Similarity
"hes 3; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 49;
                                                                                                                        Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin - \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{
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                                                                                                                                                                                                                                                                                                                                                   Blaschuck OW,
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30-MAR-1999;
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30-MAR-1999;
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                                                        98; 121pp; English
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99US-0282029
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              71.4%;
37.5%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cell adhesion recognition sequence;
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Pred. No. 4.3e+05;
2; Mismatches 3;
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                                                                            The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-3 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
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                                                                                                                                                                                                                                                                                                                                                                                                Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys and across the skin -
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Sequence
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30-MAR-1999;
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30-MAR-1999;
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           AAB06608;
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99US-0282029.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         03-NOV-1998;
30-MAR-1999;
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                                                                                                                           WO200026360-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAB06617 standard; peptide; 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             conformation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (ADHE-) ADHEREX TECHNOLOGIES INC
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                                                                                                                                                                                                                                                                                    rejection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    55; Page 99; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
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99US-0282029.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 25; DB 21;
Pred. No. 4.3e+05;
0; Mismatches 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gour BJ;
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RESULT 22
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin -  \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac
vasopermiability, fo
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30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claudin-3 modulating agent; cell adhesion recognition sequence;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claudin-3 cyclic cell adhesion recognition sequence SEQ ID NO: 259.
                                                                   Antibody modulation of claudin-mediated cell adhesion for increasing
                                                                                                                                                                                                                                                                                              (ADHE-) ADHEREX TECHNOLOGIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11-MAY-2000
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                                                                                                                                               2000-365610/31
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99US-0282029
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Best Local Similarity
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                                                                                                              The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-4 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin -  \frac{1}{2} \int_{-\infty}^{\infty}
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30-MAR-1999;
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Matches 4; Conservative
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AAB06670 standard; peptide; 8
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30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-4 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys and across the skin -  \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}
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30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claudin-4 cyclic cell adhesion recognition sequence
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2 wrvtaf 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Symonds JM,
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99US-0282029
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                                                                                                                                                                                                                                                                                                                                                                                                             Score 25; DB Pred. No. 4.3e 0; Mismatches
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Result
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Maximum Match 100%
Listing first 50 summaries
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           Minimum DB seq length: 0 Maximum DB seq length: 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Total number of hits satisfying chosen parameters:
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222222111111111198765
                                                                                                                                                                                                                                                                                                         Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
  Issued_Patents_AA:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         212252 seqs, 22503292 residues
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                                                                                                                                                                                                                                                                                                                                               /cgn2_6/ptodata/2/laa/5A_COMB.pep:*
/cgn2_6/ptodata/2/laa/5B_COMB.pep:*
/cgn2_6/ptodata/2/laa/6A_COMB.pep:*
/cgn2_6/ptodata/2/laa/6B_COMB.pep:*
/cgn2_6/ptodata/2/laa/PCTUS_COMB.pep:*
/cgn2_6/ptodata/2/laa/PcTUS_COMB.pep:*
                                                                                                                                                                                                                                                               Length
   US-08-190-802A-263
US-08-089-994A-12
US-08-089-994A-12
PCT-US94-07605-12
US-08-633-760-3
US-09-139-802-65
US-09-139-802-65
US-09-139-802-65
US-08-335-733D-23
US-08-335-733D-25
US-08-35-733D-25
US-08-35-733D-25
US-08-35-733D-25
US-08-35-768-27
US-08-35-711-17
US-08-871-163-27
US-08-871-163-27
US-08-191-163-27
US-08-191-163-27
US-08-191-163-27
US-08-191-163-265
US-08-215-137-11
US-08-215-137-11
US-08-215-137-11
US-08-215-137-11
US-08-215-137-11
US-08-215-137-11
US-08-31-984-16
US-08-391-946-62
US-08-391-946-62
US-08-871-759B-108
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4.527 Million cell updates/sec
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12, Appl
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34, Appl
44, Appl
56, Appl
55, Appl
24, Appl
25, Appl
25, Appl
27, Appl
31, Appl
31, Appl
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11, Appl
16, Appl
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62, Appl
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27, Appli
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265, App
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US-08-190-802A-263
                   ORIGINAL SOURCE:
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16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
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27,	Sequence 39, Appl	Sequence 89, Appl	Sequence 56, Appl	Sequence 33, Appl		Sequence 20, Appl		Sequence 16, Appl	•	Sequence 34, Appl	Sequence 7, Appli	Sequence 264, App	Sequence 3, Appl1	Sequence 2, Appli	Sequence 1, Appli	Sequence 25, Appl	'n	•	Sequence 40, Appl	Sequence 3, Appli	•	Sequence 24, Appl

ALIGNMENTS

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US-D8-190-802A-263
Sequence 263, Application US/08190802A
Patent No. 551003
GENERAL INFORMATION:
APPLICANT: Mochly-Rosen, Daria
APPLICANT: Mochly-Rosen, Daria
APPLICANT: Mochly-Rosen, Daria
APPLICANT: Mochly-Rosen, Daria
APPLICANT: Mochly-Rosen, Daria
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APPLICANT: Mochly-Rosen, Daria
APPLICANT: Mochly-Rosen
APPLICANT: Mochly-Rosen
APPLICANT: Mochly-Rosen
APPLICATION APPLICATION DATA:
APPLICATION NUMBER: US/08/190,802A
FILING DATE: 01-FEB-194
CLASSIFICATION INFORMATION:
APPLICATION NUMBER: B600-0139
TELEPAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 263:
ENGUENCE CHARACTERISTICS:
LENGTH: 5 amino acids
TYPE: amino acids
TYPE: amino acids
TYPE: Amino acids
TYPE: Amino acids
TYPE: Amino acids
TYPE: Amino acids
TYPE: Amino acids
TYPE: Amino acids
INDUTUDUAL TYPE: Peptide
HYPOTHERICAL: YES
ANTI-SENSE: NO
ORIGINAL SOURCE: WRTAA peptide
US-08-190-802A-263
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Query Match

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; Sequence 12, Application US/08089994A
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                     US-08-089-994A-12
                                     RESULT
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Best Local Similarity
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APPLICANT: Mochly-Rc
APPLICANT: Ron, Dori
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
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                                                                                                                                                                                                                                                                                                                                                                             NAME: MURASHIGE, KATE H.
REGISTRATION NUMBER: 29,599
REFERENCE/DOCKET NUMBER: 2550-0025.20
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500
TELEPAR: (202) 887-0763
INFORMATION FOR SEQ ID NO: 263:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION UNMERS: 08/487,072
FILING DATE: 07-JUN-1995
ATTORNEY/ACENT INFORMATION:
ATTORNEY/ACENT INFORMATION:
                                                                                                                                                                                                                               HYPOTHETICAL: YES ANTI-SENSE: NO ORIGINAL SOURCE: INDIVIDUAL ISOLATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 20006-1812
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
LENGTH: 5 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                          MOLECULE TYPE: peptide HYPOTHETICAL: YES
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CORRESPONDENCE ADDRESS:
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CITY: Washington
                                                                                                                                                                                                                                                                                                                    TYPE: amino acid
STRANDEDNESS: si
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SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                         linear
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60.0%;
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60.0%;
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                                                                                                                                                                                                                               WRTAA peptide
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Pred. No.
                                                                                                                                                        Score 20; Pred. No.
                                                                                                                                         Mismatches
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                                                                                                                                      Db ;,
. 1.6e+05;
2;
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1.6e+05;
2;
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Best Local Similarity
"Thehes 3; Conserv
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                                                                                                                                                                                                                                                                                                                                                  PCT-US94-07605-12
                                                                                                                                                                                                                                                                                                              Sequence 12, Application PC/TUS9407605 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Patent No. 5380668
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS
                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch,1.44Mb floppy disk
                                                                                                                                                                                                                                                           APPLICANT: Herron, James N. TITLE OF INVENTION: Compounds Having the Antigenicity of TITLE OF INVENTION: hCG
                                                                                                                                                                                                                           NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE/DOCKET NUMBER: 22
TELECOMMUNICATION INFORMATION:
TELEPHONE: 801/532-1922
TELEPEAX: 801/531-9168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
NAME: Turner, Allen C.
REGISTRATION NUMBER: 33,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/089,994A
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM: MEDIUM TYPE: 3.5 inc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION:
CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELLEFAX: 000, TELLEFAX: 000, SEC
                                                                                                                                    ADDRESSEE: University of Utah Technology
ADDRESSEE: Transfer Office
STREET: 421 Wakara Way, Suite 170
CITY: Salt Lake City
STATE: UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OPERATING SYSTEM: PC-D
SOFTWARE: WORD PERFECT
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CITY: Salt Lake City
STATE: UT
                            COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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ZIP: 84108
                                                                                                     COUNTRY: US
ZIP: 84108
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CLASSIFICATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE: University of Utah Technology ADDRESSEE: Transfer Office
                  SOFTWARE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              amino acid
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                  WORD PERFECT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                E: 3.5 inch,144Mb storage
IBM PC compatible
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60.0%;
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Pred. No. 1.6e+05
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PCT/US94/07605

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RESULT 5
US-08-633-760-3
; Sequence 3, Ap
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; TOPOLOGY: linear
PCT-US94-07605-12
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Best Local Similarity
Thes 3; Conserv
                                   ATTORNEY/AGENT INFORMATION:
NAME: OBLON, NORMAN F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 18-929-0 PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 413-3000
TELEFAX: (703) 413-220
TELEFAX: 24885 OPAT UR
INFORMATION FOR SEQ ID NO: 3:
INFORMATION FOR SEQ ID NO: 3:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Turner, Allen C.
REGISTRATION NUMBER: 33,041
REFERENCE/DOCKET NUMBER: 2224
TELECOMMUNICATION INFORMATION:
TELEPHONE: 801/532-1922
TELEPAX: 801/531-9168
TELEX: 368961 1PM04UT
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 6 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sequence 3, Application US/08633760 Patent No. 5804429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Potentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION DATA:
APPLICATION WIMBER: US/08/633,760
FILING DATE: 01-WAY-1996
CLASSIFICATION: 435
CCLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: 08/08 FILING DATE: 6 Jul 1993 AFTORNEY/AGENT INFORMATION:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: ISHII, YOSHINORI
APPLICANT: NOGUCHI, YUJI
TITLE OF INVENTION: A NEW CEPHALOSPORIN C ACYLASE
NUMBER OF SEQUENCES: 64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                STREET: 1755 JEFFERSON DAVIS HIGHWAY, SUITE 400 CITY: ARLINGTON STATE: VIRGINIA COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: NIWA, MINEO APPLICANT: SAITO, YOSH!
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADDRESSEE: OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT ADDRESSEE: P.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: FILING DATE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
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Pred. No. 1.6e+05;
Pred. No. 2;
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; TOPOLOGY: linear; MOLECULE TYPE: peptide US-08-633-760-3
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APPLICANT: Fairbrother, Wayne J.
APPLICANT: Sliwkowski, Mark X.
APPLICANT: Wells, James A.
TITLE OF INVENTION: HEREGULIN VARIANTS
FILE REFERENCE: 14918-720CON1
CURRENT APPLICATION NUMBER: US/09/020,880A
CURRENT FILING DATE: 1998-02-09
EARLIER APPLICATION NUMBER: US 60/037,581
EARLIER FILING DATE: 1997-02-10
NUMBER OF SEQ ID NOS: 116
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Best Local Similarity
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Best Local Similarity
"~+~hes 3; Conserv
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US-09-020-880-44
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US-09-020-880-44
                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-139-802-65
                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                         Sequence 65, Application US/09139802 Patent No. 6180084
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO 44
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                                                                           SEQ ID NO 65
                                                                                       APPLICANT: Pasqualini, Renata
TITLE OF INVENTION: MOR Receptor and Methods of Identifying Tumor Homing
TITLE OF INVENTION: Molecules That Home to Angiogenic Vasculature Using
TITLE OF INVENTION: Same
FILE REFERENCE: P-LJ 3203
CURRENT APPLICATION NUMBER: US/09/139,802
CURRENT FILING DATE: 1998-08-25
EARLIER APPLICATION NUMBER: 08/926,914
EARLIER FILING DATE: 1997-09-10
EARLIER FILING DATE: 1997-09-10
EARLIER APPLICATION NUMBER: 08/710,067
EARLIER APPLICATION NUMBER: 08/710,067
EARLIER FILING DATE: 1996-09-10
NUMBER OF SEQ ID NOS: 226
SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Genentech, Inc.
APPLICANT: Ballinger, Marcus [
APPLICANT: Ballinger, Marcus [
                                                                                                                                                                                                                                                                                                                                                APPLICANT: Ruoslahti,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 116
SOFTWARE: FastSEQ for Windows Version 3.0
              TYPE: PRT ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 5
                                                      ENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 WRLVA 5
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Pred. No. 1.6e+05
0; Mismatches
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Pred. No. 1.6e+05,
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APPLICANT: Kauppinen, Markus
APPLICANT: Borge, Diderichsen
TITLE OF INVENTION: Method Of Providing No. 62:
FILE REFERENCE: 4772.204 US
CURRENT APPLICATION NUMBER: US/09/189,060B
CURRENT FILING DATE: 1998-11-10
PRIOR APPLICATION NUMBER: PCT/DK97/00216
PRIOR FILING DATE: 1997-05-12
NUMBER OF SEQ ID NOS: 74
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 58
LENGTH: 6
TYPE: PRT
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US-08-335-733D-23
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; LOCATION: (1)...(6)
; OTHER INFORMATION: Xaa = Phe
US-09-189-060B-58
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-189-060B-58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local s
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
APPLICANT: Dalboge, Henrik
APPLICANT: Sandal, Thomas
                                                                                                                                                                                                                                                                                        Sequence 23, Application US/08335733D Patent No. 6042831
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
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                                                                                                                                                                                                                                                         GENERAL INFORMATION:
APPLICANT: Berett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OTHER INFORMATION: Description of Artificial Sequence: Synthetic OTHER INFORMATION: Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Prokaryotic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURE:
SOFTWARE: FastSEQ Version 1.5 CURRENT APPLICATION DATA:
                                                           ZIP: 10112-0228
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                          NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                         TITLE OF INVENTION:
                                                                                                                                             STREET:
CITY: N
                                              COMPUTER:
                            OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local Similarity les 3; Conserv
                                                                                                             COUNTRY:
                                                                                                                                                                           ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                     1 wrxxaf 6
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                                                                                                                                             New York
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                                                                                                                                                            E: Baker & Botts, L.L.P.
30 Rockefeller Plaza
                                                                                                             U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                       Beretta,
                                            IBM Compatible
                                                                                                                                                                                                                         HIV PROTEIN EPITOPES
IMMUNOLOGICALLY HOMOLOGOUS TO HLA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                51.48;
                                                                                                                                                                                                                                                         Alberto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    48.6%;
66.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 17; DB
Pred. No. 1.60
0; Mismatches
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                              DB ;
. 1.6e+05;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 6;
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Best Local Similarity
"htches 2; Conservation
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 24, Application US/08335733D Patent No. 6042831 GENERAL INFORMATION:
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TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-408-2500
TELEFAX: 212-765-2519
                                                                                                                                    ATTORNEY/AGENT INFORMATION:
NAME: MacLeod, Janet M
REGISTRATION NUMBER: 35,263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM: MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Beretta, TITLE OF INVENTION: TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: FastSEQ Version 1.5 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
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OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                 CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/0 FILING DATE: 10-NOV-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY: U.S.A. ZIP: 10112-0228
                                                                                                              REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                          FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CLASSIFICATION: 435
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADDRESSEE:
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IMMUNOLOGICALLY HOMOLOGOUS TO HLA
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                                                                                                              A29928-PCT-USA
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Pred. No. 1.6e+05;
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US-08-335-733D-25; Sequence 25, Application US/08335733D; Patent No. 6042831
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; ORIGINAL SOURCE:
US-08-335-733D-24
US-08-335-733D-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Patent No. 6042831
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 48.6%;
Best Local Similarity 33.3%;
Matches 2; Conservative
                                                                                                                                                                                                                         APPLICATION NUMBER: US/08/335,733D

FILING DATE: 10-NOV-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: MACLEOG, Janet M
REGISTRATION NUMBER: 35,263
REFERENCE/DOCKET NUMBER: A29928-PCT-USA
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-408-2500
TELEPAX: 212-765-2519
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           MOLECULE TYPE: P
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: 1
ORIGINAL SOURCE:
                                                                                                                                                                                           INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM COMPATIBLE
COMPATER: IBM COMPATIBLE
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
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HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: Internal
                                                                                                                                                        SEQUENCE CHARACTERISTICS:
LENGTH: 8 amino acids
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ADDRESSEE: Baker & Botts, L.L.P.
STREET: 30 Rockefeller Plaza
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Beretta, TITLE OF INVENTION: TITLE OF INVENTION:
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CITY: New York
STATE: NY
                                                                                                                    STRANDEDNESS:
                                                                                                       TOPOLOGY:
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VVENTION: HMV PROTEIN EPITOPES
NVENTION: IMMUNOLOGICALLY HOMOLOGOUS TO HLA
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Pred. No. 1.6e+05;
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INFORMATION FOR SEQ ID NO: 8
SEQUENCE CHARACTERISTICS:
LENGTH: 3 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 8, Application US/08165545 Patent No. 5424396
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLATOR APPLATOR APPLATOR DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Warren M. Cheek, Jr.
NAME: Warren M. Cheek, Jr.
NAME: Warren M. Cheek, Jr.
                                                                                                                                                                                                                                       FRAGMENT TYPE:
ORIGINAL SOURCE:
ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REGISTRATION NUMBER: 33,367
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION: INFORMATION:
TELEPHONE: 202-371-8850
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/871,981
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: DisplayWrite CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM: MEDIUM TYPE: Diskette,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Mamoru TOMITA et al.
TITLE OF INVENTION: Antimicrobial Peptide and
TITLE OF INVENTION: Antimicrobial Agent
                                                                                   ORGANELLE:
IMMEDIATE SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
                                 POSITION IN GENOME:
                                                                                                                                                                                                                                                                                                                        TOPOLOGY: 1
MOLECULE TYPE:
                                                                                                                                                                                                                                                                                         ANTI-SENSE:
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                                                                                                                  CELL TYPE:
CHROMOSOME/SEGMENT: MAP POSITION:
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CITY: Washington
STATE: D.C.
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                                                                    LIBRARY:
                                                                                                                                                    HAPLOTYPE:
TISSUE TYPE:
                                                                                                                                                                                      DEVELOPMENTAL STAGE:
                                                                                                                                                                                                                         STRAIN:
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                                                                                                                                                                                                      INDIVIDUAL ISOLATE:
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805 Fifteenth Street, N.W., #700
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                                                                                                                                                                                                                                                                                                                                            linear
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Pred. No. 1.6e+05;
1; Mismatches 3
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RESULT 13
US-08-305-768-27
; Sequence 27, Application US/08305768
; Patent No. 5602097
; GENERAL INFORMATION:
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; MOLECULE TYPE: peptide
US-08-305-768-27
                                                                                                               RESULT 14
US-08-256-771-17
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                                                          Sequence 17, Application US/08256771
Patent No. 5656591
GENERAL INFORMATION:
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              APPLICANT: Mamoru TOMITA et al.
TITLE OF INVENTION: ANTIMICROBIAL AGENTS AND METHOD FOR TREATING
TITLE OF INVENTION: PRODUCTS THEREWITH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION DATA:
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COMPUTER READABLE FORM:
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NUMBER OF SEQUENCES:
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                                                                                                                                                                                                                                        Watch 45.7%; Score 16; DB 1; Lucal Similarity 100.0%; Pred. No. 1.6e+05; hes 2; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US/08 FILING DATE: 12-SEPT-1994
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1 WR 2
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                                                                                                                                                                                                                                                                                                                                                                                       TYPE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDIUM TYPE: Floppy disk
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RELEVANT RESIDUES IN SEQ ID
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PAGES:
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SYSTEM: PC-DOS/MS-DOS
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 PRODUCTS
32
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Pred. No. 1.6e+05;
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US-08-381-984-17
; Sequence 17, Application US/08381984
; Patent No. 5804555
; Patent INFORMATION:
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Best Local
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CLASSIFICATION: 252 PRIOR APPLICATION NUMBER:
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REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
                                             SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08,
FILING DATE: April 11, 199
                                                                                                                                               COMPUTER READABLE FORM: MEDIUM TYPE: Diskette,
                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                             APPLICANT: Mamoru TOMITA et al. TITLE OF INVENTION: ANTIOXIDANT NUMBER OF SEQUENCES: 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
LENGTH: 3 amino acids
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PRIOR APPLICATION DATA: APPLICATION NUMBER:
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MEDIUM TYPE: Diskett
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ADDRESSEE: Wenderoth
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ZIP: 200
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FILING DATE: July 22, 1994
CLASSIFICATION: 514
                                                                                                             COMPUTER: IBM Compatible
OPERATING SYSTEM: MS-DOS
                                                                                                                                                                                                                           STREET: 805 Fifte CITY: Washington
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CITY: Washington
                                                                                                                                                                                                               STATE: D.C.
                                                                                                                                                                                                                                          ADDRESSEE: Wenderoth, Lind & Ponack STREET: 805 Fifteenth Street, N.W., \#700
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OPERATING SYSTEM:
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805 Fifteenth Street, N.W., #700
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linear
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100.0%; Pred. No. 1.6e+(
tive 0; Mismatches
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                                                                                                                                                 3.5 inch, 1.44 mb
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hes 0;
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RESULT 17
US-08-767-903-27
; Sequence 27, Application US/08767903
; Patent No. 6020312
                                                                                                                                                                                                                         TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
HOLECULE TYPE: peptide
US-08-871-163-27
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; LOCATION:
; IDENTIFICATION METHOD:
; OTHER INFORMATION: /note- "the specified peptide as well as
; OTHER INFORMATION: peptides including the specified peptide as a fragment thereous-
US-08-381-984-17
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US-08-871-163-27
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Best Local Similarity
Watches 2; Conserve
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                                                                                                                                                      Matches
                                                                                                                                                                  Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                CLASSIFICATION: 435
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION: Antifungal Peptides
NUMBER OF SEQUENCES: 47
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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NAME: Warren M. Cheek, Jr.
3,367
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TYPE: amino acid
STRANDEDNESS: single
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1 wr 2
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linear
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100.0%; Prr
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Pred. No.
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o. 1.6e+05;
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RESULT 19
US-08-105-545-7
; Sequence 7, Application US/08165545
; Patent No. 5424396
; GENERAL INFORMATION:
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                                                                                                                                                 Query Match
Best Local Similarity
Conserved
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PCT-US95-11724-27
; Sequence 27, Application PC/TUS9511724
; GENERAL INFORMATION:
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 3 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 3 amino acids
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APPLICATION NUMBER: PCT/US95/11724
                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
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1 | 1 | 2
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TOPOLOGY: li
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1 WR 2
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TOPOLOGY: 11
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE:
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                                                                                                                                                                  Conservative
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                                                                                                                                     45.7%; 50.
100.0%; Pred. No.
100.0%; Mismatches
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; PUBLICATION DATE: ; RELEVANT RESIDUES IN SEQ ID US-08-165-545-7
RESULT 21
US-08-215-137-11
; Sequence 11, Application US/08215137
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Best Local Similarity
Thes 2; Conservi
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                                                                                                                                       Matches
                                                                                                                                                     Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Fabian, Gary R.
REGISTRATION NUMBER: 33,875
REFERENCE/DOCKET NUMBER: 8600
TELECOMMUNICATION INFORMATION:
TELECPHONE: (415) 324-0880
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ZIP: 94306-0850
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                             ORIGINAL SOURCE:
                                                                                                                                                                                                                                                        MOLECULE TYPE: peptide HYPOTHETICAL: YES ANTI-SENSE: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 265
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dehlinger & Associates
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100.0%; Pr
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                                                                                                                                      45.7%; Score 16;
100.0%; Pred. No.
live 0; Mismatcl
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hes 0;
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RESULT 22
US-08-256-771-16
; Sequence 16, Application US/08256771
; Patent No. 5656591
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Best Local
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATCHTIN Release #1.0, VE
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/215,137
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE/DOCKET NUMBER: 19108
TELECOMMUNICATION: INFORMATION:
TELEPHONE: (908) 594-4790
INFORMATION FOR SEQ ID NO: 11:
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APPLICANT: Slcilliano, Salvatore J
APPLICANT: Springer, Martin S
TITLE OF INVENTION: ASSAY TO IDENTIFY HUMAN C5A ANTAGONISTS
TITLE OF INVENTION: AND AGONISTS
NUMBER OF SEQUENCES: 15
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LENGTH: 4 amino acids
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NAME: Bencen, Gerard H
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ADDRESSEE: Merck & Co., Inc.
STREET: 126 Lincion Ave., P.O. Box 2000
                                                                                                                                                                                                                                                                                                                                               FEATURE:
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CITY: Rahway
STATE: New Jo
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OTHER INFORMATION:
OTHER INFORMATION:
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3 wr 4
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OTHER INFORMATION:
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STRANDEDNESS: sir
TOPOLOGY: linear
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COMPUTER: II
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REGISTRATION NUMBER: 3
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594-4720
NO: 11:
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/note- "D-arginine"
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; Sequence 22, Application US/08222851
; Patent No. 5723128
; GENERAL INFORMATION:
APPLICANT: CLAYBERGER, CAROL A.
APPLICANT: KRENSKY, ALAN M.
APPLICANT: PARHAM, PETER
APPLICANT: PARHAM, CETTOTOXIC T-CE
TITLE OF INVENTION: ACTIVITY REGUL
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Best Local Similarity
"---hes 2; Conserv?
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; MOLECULE TYPE:
US-08-256-771-16
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US-08-222-851-22
COUNTRY: USA
ZIP: 20006-1812
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, V.
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NAME: Warren M. Cheek, Jr.
REGISTRATION NUMBER: 33,367
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-8850
                                                                                                                                                      NUMBER OF SEQUENCES: 43
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 2000 PENNSYLVANIA AVENUE, NW, STE 5500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
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MEDIUM TYPE: Diskett
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TITLE OF INVENTION: ANTIMICROBIAL AGENTS AND METHOD FOR TREATING
TITLE OF INVENTION: PRODUCTS THEREWITH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US/08/
FILING DATE: July 22, 1994
CLASSIFICATION: 514
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CITY: Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: amino acid
                                                                                                                             STATE:
                                                                                                                                          STREET: 2000 PEN
CITY: WASHINGTON
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805 Fifteenth Street, N.W., #700
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ACTIVITY REGULATION BY CLASS I MHC PEPTIDES
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100.0%; Pred. No.
tive 0; Mismatch
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       Version
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. 1.6e+05;
       #1.30
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Patent No. 5804555
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                                                                                         INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
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TELEX: 90-4030 MRSNFOERSWSH
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES: 32

CORRESPONDENCE ADDRESS:
ADDRESSEF: 177-7
                                                                                                                                                                                             ATTORNEY/AGENT INFORMATION:
NAME: Warren M. Cheek, Jr.
REGISTRATION NUMBER: 33,367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REGISTRATION NUMBER: 36,217
REFERENCE/DOCKET NUMBER: 28600-20200.22
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                          CLASSIFICATION: 252 PRIOR APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                    SOFTWARE: Wordperfect 5.1 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.44
                                                                                                                                                     REFERENCE/DOCKET NUMBER: TELECOMMUNICATION INFORMATION: TELEPHONE: 202-371-8850
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FEATURE:
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               MOLECULE TYPE:
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                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM CON
OPERATING SYSTEM:
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CITY: Washington
                                         TYPE: amino a STRANDEDNESS:
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                                                                                                                                                                                                                                              FILING DATE:
                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: FILING DATE: April
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TELEFAX: (202) 494-0792
                                 TOPOLOGY:
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3 WR 4
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Y: U.S.A.
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Best Local Similarity
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Best Local S
Matches 2
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GENERAL INFORMATION:
                                                                                                                                                                                                               INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                           TELECOMMUNICATION INFORMATION:
TELEPHONE: 703 836-6400
TELEFAX: 703 836-2787
                                                                                                                                                                                                                                                                                              ATTORNEY/AGENT INFORMATION:
NAME: Berridge, William P.
REGISTRATION NUMBER: 30,02
                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/592,646A
FILING DATE: 26-JAN-1996
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
ADDRESSEE: OLIFF & BERRIDGE, PLC
STREET: P.O. Box 19928
                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION:
                                                                                                                                            MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
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OTHER INFORMATION: pe
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LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC
OPERATING SYSTEM:
                                                                                                                                                        STRANDEDNESS:
TOPOLOGY: lir
                                                                                                                                                                                                                                                                                     REGISTRATION NUMBER: 30,024
REFERENCE/DOCKET NUMBER: WPB 36923
                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ZIP: 22320
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CITY: Alexandria
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VENTION: MIMOTOPIC POLYPEPTIDES OF TOXOPLASMA
VENTION: GONDII AND APPLICATIONS
                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
Patentin Release #1.0, Version #1.30
                                                                                                                                         peptide
                                                                                                                                                                     single
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100.0%; F1
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                                                                      Score 16; pred. No.
                                                          Mismatches
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                                                        1.6e+05;
hes 0;
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Search completed: January 14, 2002, 07:41:37 Job time: 458 sec

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Title:
Perfect score:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                   Score
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length: 2000000000
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1 WKIYSYAG B
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Gapop 10.0 , Gapext 0.5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GenCore version 4.5 Copyright (c) 1993 - 2000 Compugen Ltd
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      AAB06419
AAB06420
AAB06436
AAB06436
AAB064454
AAB06463
AAB06463
AAB064671
AAB06911
AAB06426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Search time 93.18 Seconds (without alignments) 6.360 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  522463
Claudin-1 cell adh
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Murine clodin 1 pr
Claudin-1 cell adh
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laudin-1 cyclic	AAB06470	21	œ	9	œ	50
laudin-1 cyclic	AAB06461	21	8	9.	8	49
laudin-1 cyclic	AAB06452	21	8	9	8	48
laudin-1 cyclic	AAB06443	21	8	9.	æ	47
laudin-1 cyc	AAB06434	21	8	9	8	46
·1 cycli	AAB06477	21	6	9	8	
č	AAB06417	21	6	9	80	44
5	AAR67653	16	513	_	9	43
icus	AAR13181	12	513	۳	9	
ne j	AAR04585	1	513	۳	9	41
laudin-1 cyclic	AAB06508	21	9	<u>''</u>	9	40
laudin-1 cyc	AAB06502	21	9		9	39
laudin-1 cyclic	AAB06496	21	9	<u>. </u>	9	38
laudin-1 cyclic	AAB06490	21	9	<u></u>	9	37
laudin-1 cyclic	AAB06484	21	9	_	9	36
laudin-1 cyclic	AAB06511	21	7	-	9	35
l ad	AAB06425	21	7	<u>ب</u>	9	34
laudin-1 cyclic	AAB06471	21	9	7.	Ν	ω ω
laudin-1 cyclic	AAB06462	21	9	7.	N	32
laudin-1 cyclic	AAB06453	21	9	7.	2	<u>ω</u>
laudin-1 cyclic	AAB06444	21	9	7.	N	30
laudin-1 cycl	AAB06435	21	9	7.	2	29
laudin-1 cycli	AAB06478	21	7	7	N	28
in-1 cell	AAB06418	21	7	7.	2	27
secreted	AAY76130	21	212	ω	S	26
ecreted pr	AAY38430	20	212	ω.	ر.	25
an molec	AAY68679	21	211	ω ·	(J	24
n PRO944 (UNQ	AAB44282	21	211	ω	G	23
senesceno	AAW99653	20	211	ω.	G	22
Tango-73	AAY04143	20	211	ω	5	21
PRO944 pro	AAY41726	20	211	ω	G	20
uman secreted pr	AAY38421	20	71	ω.	G	19
laudin-1 cyclic	AAB06509	21	10	ω	S	18
laudin-1 cyclic	AAB06503	21	10	ω	S	
laudin-1 cyclic	AAB06497	21	10	ω.	5	16
laudin-1 cycl	B0649	21	10	93.8	5	15
laudin-1 cyclic	0648	21	10	ا ند	יוכ	14
Claudin-1 cell adh	AAB06427	21	ه م	ω.	ט נ	13
ndin-1 cyclic	1230	<u>ر</u>	œ.	J	Л	วี

ALIGNMENTS

RESULT

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AAB06419
                                                                                                                                        Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection.
                                         03-NOV-1998;
30-MAR-1999;
                                                                                                    w020002636∕0-A1
                                                                                                                                                                           Claudin-1 cell adhesion recognition sequence SEQ ID NO: 34.
       Blaschuck OW,
                                                                    03-NOV-1999;
                                                                                    11-MAY-2000.
                                                                                                                        Mammalia.
                                                                                                                                                                                             28-SEP-2000
                                                                                                                                                                                                              AAB06419;
                                                                                                                                                                                                                               AAB06419 standard; peptide;
                        (ADHE-) ADHEREX TECHNOLOGIES INC
                                                                                                                                                                                            (first entry)
       Symonds JM,
                                         98US-0185908.
99US-0282029.
                                                                    99WO-CA01029
       Gour BJ;
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RESULT
AAB06479
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    \begin{array}{c} \mathsf{CCCCCC} \\ \mathsf{CCCCC} \\ \mathsf{CCCC} \\ \mathsf{CCCC} \\ \mathsf{CCCCC} \\ \mathsf{XXX} \\ \mathsf{XXZ} \\ \mathsf{CCCCC} \\ \mathsf{CCCCC} \\ \mathsf{XXX} \\ \mathsf{XXZ} \\ \mathsf{XXZ} \\ \mathsf{XXZ} \\ \mathsf{XXZ} \\ \mathsf{XXZ} \\ \mathsf{XXZ} \\ \mathsf{XXZ} \\ \mathsf{XZZ} \\ \mathsf{XZZ} \\ \mathsf{XZZ} \\ \mathsf{XZZ} \\ \mathsf{XZZ} \\ \mathsf{XZZ} \\ \mathsf{XZZ} \\ \mathsf{XZZ} \\ \mathsf{XZZ} \\ \mathsf{XZZ} \\ \mathsf{XZZ} \\ \mathsf{XZZ} \\ \mathsf{XZZ} \\ \mathsf{XZZ} \\ \mathsf{XZZ} \\ \mathsf{XZZ} \\ \mathsf{XZZ} \\ \mathsf{XZZ} \\ \mathsf{ZZZ} \\ \mathsf{ZZZ} \\ \mathsf
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Best Local S
Matches 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site.
The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claudin-1 cyclic cell adhesion recognition sequence
                                                                                                                                                                                                                                                                                                                         Claim 43; Page 97; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2000-365610/31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Blaschuck OW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11-MAY-2000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claudin-1 modulating agent;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAB06479 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 39; Page 96; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                     and across the skin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (ADHE-) ADHEREX TECHNOLOGIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               03-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MO200026360-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mammalia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    graft rejection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-SEP-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      vasopermiability, for delivering drugs to tumors and the nervous system and across the {\tt skin} -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
les 8; Conserv
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| wkiysyag 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sequence; autoimmune disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2000-365610/31
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99US-0282029
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99WO-CA01029
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gour BJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cell adhesion recognition sequence;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8 AA
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              inflammatory disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4.3e+05;
hes 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ID NO: 110.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
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RESULT
AAB06420
ID AAB0
            Query Match
Best Local Similarity
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                                                                                                   can be used to modulate these levels, and thus treat autoimmune diseases. Inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site.
                                                                                                                                               The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides
                                                                                                                                                                                                                              vasopermiability, for delivering drugs to tumors and the nervous and across the {\tt skin} -
                                                                                                                                                                                                                                                                                                                                           03-NOV-1998;
30-MAR-1999;
                                                                              Sequence
                                                                                                                                                                                                        Claim
                                                                                                                                                                                                                                                   Antibody modulation of claudin-mediated cell adhesion for increasing
                                                                                                                                                                                                                                                                          WPI; 2000-365610/31.
                                                                                                                                                                                                                                                                                                 Blaschuck OW,
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                                                                                                                                                                                                                                                                                                                                                                                                                                               Mammalia
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| wkiysyag 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sequence; autoimmune disease;
 WKIYSYAG
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                                                                                                                                                                                                       39; Page 96; 121pp; English.
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99US-0282029
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                                                                                                                                                                                                                                                                                                 Gour BJ;
                                   Score 48; DB 21;
Pred. No. 4.3e+05;
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Best Local Similarity 100.
Matches 8; Conservative
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                        Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection; cyclic.
           graft
                                                               Claudin-1 cyclic cell adhesion recognition sequence SEQ ID NO:
                                                                                           28-SEP-2000
                                                                                                                                             AAB06445 standard; peptide; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 43; Page 96; 121pp; English.
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30-MAR-1999;
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            rejection;
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99US-0282029
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Pred. No. 0.0054;
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RESULT
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Best Local Similarity
Matches 8; Conserv
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 Blaschuck OW,
                                                                                                                11-MAY-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
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30-MAR-1999;
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30-MAR-1999;
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Symonds JM,
                                                  98US-0185908
99US-0282029
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99US-0282029.
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Pred. No. 0.0054;
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Matches 8; Conser
The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases
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                                                                                                                  Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the {\tt skin} -
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                                                                                        Claim 43;
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30-MAR-1999;
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Pred. No. 0.0054;
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30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claudin-1 modulating agent; cell adhesion recognition s CAR sequence; autoimmune disease; inflammatory disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claudin-1 cyclic cell adhesion recognition sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAB06472;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAB06472 standard; peptide; 10 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
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                                                                                                                                                                            conformation.
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nes 8; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             Page 97; 121pp; English.
                                                                                                                   10 AA;
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99US-0282029.
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  100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gour
Score 48; DB 21;
Pred. No. 0.0054;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 48; DB 21;
Pred. No. 0.0054;
; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ВJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cell adhesion for increasing to tumors and the nervous sys
                             Length 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 10;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sequence;
e; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0;
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AAB06911
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Best Local Similarity
Best Similarity
Conserve
                                                            RESULT
                                                                                                                                                                                                        AAY51675;
                                    AAY51675 standard;
                                                                                                                                                                                                                                       The present sequence is a peptide which can be used in a claudin-mediated cell adhesion modulator. The claudin group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and this peptide can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, it can also be used to facilitate drug delivery
                                                                                                                                                                                                                                                                                                                                                                Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin - \,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               graft rejection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAR sequence;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claudin cell adhesion recognition modulating sequence SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       05-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAB06911 standard; Protein; 10 AA
                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 19; 121pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                         Blaschuck OW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           03-NOV-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claudin modulating agent; cell adhesion recognition sequence;
                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                (ADHE-) ADHEREX TECHNOLOGIES INC
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| wkiysyag
                                                                                                                                                                                                                              the desired target site.
                                                                                                                     1 WKIYSYAG 8
                                                                                                                                                                                                        10 AA;
                                                                                                                                              Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           autoimmune disease; inflammatory disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                        Symonds JM,
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99US-0282029
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                                    Protein;
                                                                                                                                                        100.0%;
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                                    211 AA
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Pred. No.
                                                                                                                                             Mismatches
                                                                                                                                                        0.0054;
                                                                                                                                                                    DB 21;
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Best Local Similarity
Matches 8; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                              This invention describes novel murine nucleic acid sequences encoding the clodin family of tight junction (TJ) constituting membrane protein can be used in medical field. This sequence represents the clodin 1 protein described in the method of the invention.
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                                                  03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                    graft rejection.
                                                                                                                                                                              Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                             Claudin-1 cell adhesion recognition sequence SEQ ID NO: 485.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tight junction-constituting membrane protein clodin family - useful in the medical field \mathring{\ }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   02-FEB-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Clodin 1; murine; tight junction-constituting membrane
        Blaschuck OW,
                                                                                 03-NOV-1999;
                                                                                                                                                Mammalia
                                                                                                                                                                                                                                   28-SEP-2000
                                                                                                                                                                                                                                                                          AAB06426 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       N-PSDB; AAZ89136.
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                             (ADHE-) ADHEREX TECHNOLOGIES INC
                                                                                                      11-MAY-2000
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30 wkiysyag 37
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llarity 100.0%;
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        Symonds JM,
                                                  98US-0185908
99US-0282029
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Pred. No. 0.13;
; Mismatches 0;
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RESULT 12
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Best Local
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                              The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some intuitions, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
                                                                                                                                                                                                                                                                                                                         Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          03-NOV-1998;
30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claudin-1
                                                                                                                                                                                                                                           Claim 43;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Blaschuck OW,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             graft rejection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28-SEP-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAB06512 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (ADHE-) ADHEREX TECHNOLOGIES INC
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| wriysyag 8
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                                                                                                                                                                                                                                        Page 97; 121pp; English.
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87.5%;
      they can also be used to
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Pred. No. 4.3e+05;
1; Mismatches 0
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   facilitate drug
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RESULT 13
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Matches 7
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Best Local Similarity
Matches 7; Conserv
                                                                                                                                                                                                                                                                                                   situations, cell adhesion occurs at abnormal levels, and these pept can be used to modulate these levels, and thus treat autoimmune dis inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug del
                                                                                                                                                                                                                                                                                                                                                                                                            The present invention relates to the use of peptides as claudin mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin -  \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac
                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 39; Page 96; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 graft rejection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claudin-1 modulating agent; cell adhesion recognition sequence;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claudin-1 cell adhesion recognition sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (ADHE-) ADHEREX TECHNOLOGIES INC
Local Similarity
nes 7; Conserv
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| wriysyag 8
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                                                                                                                                                                                                                                                                    desired target site.
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   Conservative
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99US-0282029.
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87.5%;
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87.5%;
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Score 45; DB Pred. No. 4.3e 1; Mismatches
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Pred. No. 4.3e+05;
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4.3e+05;
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       Gaps
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AAB06485
Query Match
Best Local Similarity
7; Conserv
                                                                                                                  AAB06491
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                                                                                                                                                                                                                                                 RESULT 14
                                                                                                                             RESULT
       Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection; cyclic.
                                                                                                                                                                                                                                                                          The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and ald wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                             Claudin-1 cyclic cell adhesion recognition sequence SEQ ID NO: 498
                                                                   28-SEP-2000
                                                                                                      AAB06491 standard; peptide; 10
                                                                                                                                                                                                                                                                                                                                                                                       03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection; cyclic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claudin-1 cyclic
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                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                    Claim 43; Page 96; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2000-365610/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Blaschuck OW,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (ADHE-) ADHEREX TECHNOLOGIES INC
                                                                                                                                                      1 WKIYSYAG 8
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2 wriysyag 9
                                                                                                                                                                                                                                                 10 AA;
                                                                                                                                                                                                Conservative
                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Symonds JM, Gour BJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         98US-0185908
99US-0282029
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cell adhesion recognition sequence SEQ ID NO:
                                                                                                                                                                                                        93.8%;
                                                                                                                                                                                                         Score 45;
Pred. No.
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                                                                                                                                                                                               Mismatches
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                                                                                                                                                                                                    DB .
າ.02;
                                                                                                                                                                                                                   21;
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AAB06497
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Best Local Similarity
Matches 7; Conserv
                                                                                                                                                                                                Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection; cyclic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin - \,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 43; Page 96; 121pp; English.
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30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       03-NOV-1999;
                             03-NOV-1998;
30-MAR-1999;
                                                                                                         11-MAY-2000
                                                                                                                                                                    Mammalia
                                                                                                                                                                                                                                                             Claudin-1 cyclic cell adhesion recognition sequence SEQ ID NO: 504.
                                                                                                                                                                                                                                                                                                                                                        AAB06497 standard; peptide; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention relates to the use of peptides as claudin-mediated
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(ADHE-) ADHEREX TECHNOLOGIES INC
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| wriysyag
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                                                                                                                                                                                                                                                                                            (first entry)
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                             98US-0185908
99US-0282029
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99US-0282029.
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87.5%;
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Blaschuck OW,

Symonds JM,

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Best Local
                           The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                                                                      Claim 43;
                                                                                                                        Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous systand across the skin -
                                                                                                                                                                                                                                                                   03-NOV-1998;
30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                               graft rejection;
                                                                                                                                                                                                                                                                                                                                                                                                                                            Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
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                                                                                                                                                                                                          Blaschuck
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                                                                                                                                                                                                                                                                                                                                                                                                    Mammalia
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAB06503;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAB06503 standard; peptide; 10 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cyclic cell adhesion recognition sequence SEQ ID NO:
                                                                                     Page 97; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10 AA;
 cell adhesion occurs at abnormal levels, to modulate these levels, and thus treat
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99US-0282029
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87.5%;
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Pred. No. 0.02;
1; Mismatches
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 evels, and these peptides treat autoimmune diseases.
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1 WKIYSYAG

Matches

Local

Similarity 7; Conserv

Conservative

Mismatches

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Indels

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Gaps

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AAB06509
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Best Local
                                                                                         The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claudin-1 modulating agent; cell adhesion recognition s CAR sequence; autoimmune disease; inflammatory disease; graft rejection; cyclic.
                                                     Sequence
                                                                                                                                                                                                                   Claim 43; Page 97; 121pp; English.
                                                                                                                                                                                                                                               and across the skin
                                                                                                                                                                                                                                                         Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
                                                                                                                                                                                                                                                                                                                            Blaschuck OW,
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30-MAR-1999;
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                                                                                 conformation.
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99US-0282029
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87.5%;
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Score 45;
Pred. No.
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               DB 21;
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             Length 10;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sequence;
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*2 wriysyag

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                                       Query Match
Best Local Similarity b...
Thes 7; Conservative
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07-JAN-1998;
07-JAN-1998;
07-JAN-1998;
                                                                                                                                                                This sequence represents a secreted human protein encoded by the gene clione detailed in the descriptor line. The gene can be used to generate fusion proteins by linking to the gene to a human immunoglobulin FC portion (e.g. AAZ06210) for increasing the stability of the fused protein as compared to the human protein only.

The invention relates to 36 novel genes and their fragments (nucleic acid sequences: AAZ06219-Z06263; amino acid sequences AAY38386-Y38498) which are useful for preventing, treating or ameliorating medical conditions c.g. by protein or gene therapy. Also, pathological conditions c.g. by protein or gene therapy. Also, pathological conditions can be diagnosed by determining the amount of the new polynucleotides. Specific uses are described for each of the 36 polynucleotides, based on which tissues they are most highly expressed in (see AAZ06219 for described uses).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; secreted protein; fusion protein; gene therapy; protein therapy; diagnosis; tissue; cancer; tumour; neurodegenerative disorder; leukaemia; developmental abnormality; foetal deficiency; blood; allergy; renal; immune system; asthma; lymphocytic disease; brain; hepatic; lymphoma; inflammation; ischaemic shock; Alzheimer's disease; restenosis; AIDS; cognitive disorder; schizophrenia; prostate; obesity; osteoclast; thymus; osteoporosis; arthritis; testis; lung; thyroiditis; thyroid; digestion;
                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAY38421 standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                Claim 11; Page 195; 227pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                             New isolated human genes and the secreted polypeptides they encode
                                                                                                                                                                                                                                                                                                                                                                                                                                                             N-PSDB; AAZ06254.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                06-JAN-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (HUMA-) HUMAN GENOME SCI INC
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1 WKIYSYAG 8
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30 wriysyag 37
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Rosen CA,
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                                                                                                                                        AA;
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98US-0070657.
98US-0070658.
98US-0070692.
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                                                                          93.8%;
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Ruben SM,
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                                                                          Score 45; DB 2
Pred. No. 0.15;
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Soppet
                                                            Mismatches
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                                                                                         DB 20; Length 71;
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RESULT 126
ADX 41726
ADX 441726
ADX 4272
ACC ADX 4
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12-MAR-1998;
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11-MAR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  08-MAR-1999;
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98US-0078936.
98US-0079294.
98US-0079663.
98US-0079663.
98US-0079786.
98US-007978.
98US-007978.
98US-0080107.
98US-0080107.
98US-0080327.
98US-0080327.
98US-0080333.
98US-00801071.
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98US-0077791.
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98US-0077632
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07-MAY-1998;
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06-MAY-1998;
07-MAY-1998;
                                                                                                                        The present invention describes secreted and transmembrane polypeptides and their polynucleotides. The nucleotide sequences are useful as sources of probes, primers, for chromosome mapping, and for generation of antisense sequences. They can also be used to create transgenic animals. The proteins can be used to treat a variety of diseases and disorders, depending on their function. Diseases that may be treated include blood coagulation disorders, cancers and cellular adhesion disorders. They may also be used to raise antibodies. AAZ33891 to AAZ34338, and AAY41685 to AAY41774 represent polynucleotide and polypeptide sequence given in the exemplification of the present
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29-APR-1998;
29-APR-1998;
29-APR-1998;
29-APR-1998;
29-APR-1998;
                                                                                                                                                                                                                                                                       New secreted and transmembrane polypeptides and their polynucleotides, useful for treating blood coagulation disorders, cancers and cellular adhesion disorders -
                                                                                                                                                                                                                                                    Claim 12;
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07-MAY-1998;
                                                                                          Sequence
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13-MAY-1998;
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30-APR-1998;
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1 WKIYSYAG 8
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                                     Similarity 7; Conserv
                                                                                                                                                                                                                                                                                                                   AAZ34118
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                                                                                            211
                                     Conservative
                                                                                            AA;
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98US-0087098.
98US-0087106.
98US-0087208.
98US-0094651.
98US-0100038.
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98US-0086414.
98US-0086430.
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98US-0085700.
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98US-0084643.
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98US-0085338.
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98US-0084637
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98US-0084441.
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                                                                                                                                                                                                                                                 530pp; English.
                                                93.8%;
87.5%;
                                                                                                                                                                                                                                                                                                                                                   Gurney
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                                    Score 45; DB 2
Pred. No. 0.48;
1; Mismatches
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                                                           DB 20;
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                                     0;
                                                          Length 211;
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                                                                                                                                                                                            Matches
                                                                                                                                                                                                        Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                            The present sequence represents human Tango-73. Tango polypeptides are useful for identifying compounds which bind the polypeptide via direct binding, competition binding assays or Tango-71, -73, -74, 76 or -83-mediated signal transduction. Tango polypeptides are also useful for identifying modulating compounds by determining effect on Tango activity. Tango polypeptides and nucleic acids are useful for diagnosing diseases related to aberrant expression of Tango, and Tango polypeptides are useful for raising antibodies which can be used in diagnostic assays for detection of Tango, and also for generating anti-idiotype antibodies for
                                                                                                                                                                                                                                                                                                                                                                                                                                                   New TANGO polypeptides and nucleic diagnostic agents and for treating expression of TANGO
Human senescence factor p23 protein.
                                                                            AAW99653 standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 8; Fig 2; 84pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Goodearl ADJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             05-SEP-1997;
06-AUG-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; Tango-71; Tango-73; Tango-74; Tango-76; Tango-83; diagnosis; detection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAY04143;
                          21-MAY-1999
                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                   prevention and protection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N-PSDB; AAX19956.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1999-167426/14.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (MILL-) MILLENNIUM BIOTHERAPEUTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    06-AUG-1998;
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                                                                                                                                         wriysyag
                                                                                                                                                                                                                                                            211 AA;
                                                                                                                                                                                             Conservative
                         (first entry)
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97US-0054966.
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                                                                                                                                                                                                         93.8%;
87.5%;
                                                                            211
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                                                                                                                                                                                                         Score 45; DB 20;
Pred. No. 0.48;
                                                                             AA
                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 acids encoding them - useful disorders caused by aberrant
                                                                                                                                                                                             0,
                                                                                                                                                                                                                     Length 211;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               useful as
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                                                                                                                                                                                                                                                            AAB44282
                                                                                                                                                                                                                                                                             RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              degenerative disorders. These transgenic cells are useful in gene charapy for treating cancer, particularly where antisense colloquoucleotides are useful for blocking normal or mutant p23 expression in cancer cells or other proliferating cells. Transgenic cells are also concerted for producing the p23 polypeptide in large quantities. The cantibodies are useful for raising antiserum against p23, and for colloquous are useful for raising antiserum against p23, and for colloquous are useful for modulating or altering p23 activity in a colloquous colloquous are useful for modulating or altering p23 activity in a colloquous colloquous are useful for modulating or altering p23 activity in a colloquous colloquous and for identifying and isolating the whole gene encoding p23, and colloquous colloquous and solve passed on p23 elements, which detect p23 colloquous and activity are useful as diagnostic markers for staging tumours, colloquous provide an assay for detecting therapeutic success. These colloquous passed on passed on the p23 polynucleotide colloquous and passed on passed on the p23 polynucleotide colloquous and passed on altering the passed on the p23 polynucleotide colloquous passed on a human cell. The isolation of the p23 polynucleotide colloquous passed on manipulation of malignant growth in cancer.
                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local
WO200053756-A2
                                    Homo sapiens
                                                                     expressed sequence
                                                                                                                                                                   08-FEB-2001
                                                                                                                        Human PRO944 (UNQ481) protein sequence SEQ ID NO:270.
                                                                                                                                                                                                                                     AAB44282 standard; Protein; 211 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present sequence is human senescence factor p23. An expression vector for p23 is useful for inducing a senescent phenotype in a cell (preferably cukaryptic). This may help in regulating diseases, including cancer, persistent inflammation, and various proliferative and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Newly isolated nucleic acid molecule (designated p23) encoding a p23 polypeptide - useful for inducing a senescence phenotype in a cell
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30 wriysyag 37
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nes 7; Conserv
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                                                                secreted protein; transmembrane protein; PRO; EST; sed sequence tag; detection; cancer.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     211 AA;
                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                 (first entry)
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Pred. No. 0.48;
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                                                                                     cytostatic;
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Best Local S
Matches 7
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Goddard A,
Kljavin IJ,
Shelton DL,
                                                                                                                                                                                                                                                                AAC78458 to AAC78599 represent polynucleotide and EST (expressed sequence tag) sequences which encode secreted or transmembrane PRO polypeptides. The PRO polynucleotides and polypeptides have cytostatic activity. The polynucleotides and polypeptides can be used for detecting the presence of PRO polypeptides in samples, for linking bloactive molecules to cells and for modulating biological activities of cells, using the polypeptides for specific targeting. The polypeptide targeting can be used to kill the target cells, e.g. for the treatment of cancers. The polypeptide pairs provide specific targeting of bloactive molecules to cells. AAC78600 to AAC78987 represent PCR primers and probes used in the isolation of the PRO polynucleotide sequences.
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26-JUL-1999;
29-OCT-1999;
                                                            AAY68679 standard;
                                                                                                                                                                                                                                           Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel PRO polypeptides and polynucleotides used in detection methods, to target bloactive molecules to specific cells, and to modulate cellular activities -
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N-PSDB; AAC78513.
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05-JAN-2000;
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02-DEC-1999;
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12-MAR-1999;
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                                                                                                                           30 wriysyag
                                                                                                                                                   1 WKIYSYAG 8
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N, Filvaroff E,
A, Godowski PJ,
IJ, Kuo SS, Nap
                                                                                                                                                                                                                                           211 AA;
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2000WO-US00219.
2000WO-US00277.
2000WO-US00376.
                                                                                                                                                                            Conservative
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99WO-US28565.
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99US-0145698.
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99US-0130232.
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99US-0134287.
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99US-0123957
                                                             Protein;
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E, Fong S, Gao W, Gerber H, Gerritsee
PJ, Grimaldi CJ, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA;
TA, Tumas D, Williams PM, Wood WI;
                                                             211 AA
                                                                                                                                                                           1;
                                                                                                                                                                                       Score 45; DB 2
Pred. No. 0.48;
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                                                                                                                                                                                                   DB 21;
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05-MAY-2000 AAY68679;

(first entry)

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RESULT: 2
AAY38430
ID AAY3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 1; Page 58; 72pp; English.
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N-PSDB; AAZ60459.
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                AAY38430 standard; Protein;
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                212 AA
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Pred. No. 0.48;
1; Mismatches
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07-JAN-1998;
07-JAN-1998;
                                                                                                                                                                                This sequence represents a secreted human protein encoded by the gene clone detailed in the descriptor line. The gene can be used to generate fusion proteins by linking to the gene to a human immunoglobulin Fc portion (e.g. AAZ06210) for increasing the stability of the fused protein as compared to the human protein only. The invention relates to 36 novel genes and their fragments (nucleic acid sequences: AAZ06219-Z06263; amino acid sequences AAX38386-Y38498) which are useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. Also, pathological conditions can be diagnosed by determining the amount of the new polynucleotides. Specific uses are described for each of the 36 polynucleotides, based on which tissues they are most highly expressed in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; secreted protein; fusion protein; gene therapy; protein therapy; diagnosis; tissue; cancer; tumour; neurodegenerative disorder; leukaemia; developmental abnormality; foetal deficiency; blood; allergy; renal; immune system; asthma; lymphocytic disease; brain; hepatic; lymphoma; inflammation; ischaemic shock; Alzheimer's disease; restenosis; AIDS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cognitive disorder; schizophrenia; prostate; obesity; osteoclast; thymus; osteoporosis; arthritis; testis; lung; thyroiditis; thyroid; digestion; endocrine; metabolism; regulation; malabsorption; gastritis; neoplasm.
                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                      Claim 11; Page 203-204; 227pp;
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Olsen HS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       07-JAN-1998;
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wriysyag
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Rosen CA,
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98US-0070657.
98US-0070658.
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Ruben
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Pred. No. 0.48;
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Search completed: January 14, Job time: 281 sec

2002, 06:24:43

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ALIGNMENTS

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                                                                                                                                                                                                             03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claudin-1 cell adhesion recognition sequence SEQ ID
                                        Blaschuck OW,
                                                                                                                                                                                                                                                                                                                                           03-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                           11-MAY-2000.
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                                                                                                                        (ADHE-) ADHEREX TECHNOLOGIES INC
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                                        Symonds JM,
                                                                                                                                                                                                             98US-0185908
99US-0282029
                                                                                                                                                                                                                                                                                                                                           99WO-CA01029
                                            Gour BJ;
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2000-365610/31

Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin -

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RESULT
AAB06479
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Best Local Similarity
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           The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some stuations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant
                                                                                                                                                         Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
                                                                                                               Claim 43; Page 97; 121pp; English
                                                                                                                                                                                                  WPI; 2000-365610/31
                                                                                                                                                                                                                              Blaschuck OW,
                                                                                                                                                                                                                                                                                      03-NOV-1998;
30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       CAR sequence; autoimmune disease; inflammatory disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claudin-1 modulating agent; cell adhesion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claudin-1 cyclic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAB06479 standard; peptide;
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                                                                                                                                                                                                                                                          (ADHE-) ADHEREX TECHNOLOGIES INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                           rejection;
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                                                                                                                                                                                                                              Symonds
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99US-0282029.
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                                                                                                                                                                                                                                                                                                                                                                                                                                           cyclic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cell adhesion recognition sequence SEQ ID NO: 110.
                                                                                                                                                      for delivering drugs to tumors and the nervous system
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can also be used to
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Pred. No.
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                                                                                    The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
                                                      Sequence
                                                                                                                                                                              Claim
                                                                            to the desired target site.
                                                                                                                                                                                                    and across the skin
                                                                                                                                                                                                               vasopermiability,
                                                                                                                                                                                                                        Antibody modulation of claudin-mediated cell adhesion for increasing
                                                                                                                                                                                                                                               WPI; 2000-365610/31.
                                                                                                                                                                                                                                                                     Blaschuck OW,
                                                                                                                                                                                                                                                                                           (ADHE-) ADHEREX TECHNOLOGIES INC
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30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                 Mammalia
                                                                                                                                                                                                                                                                                                                                                                                                                                      graft rejection
                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAR sequence;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claudin-1 modulating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claudin-1 cell adhesion recognition sequence SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAB06426;
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1 wkiysyag 8
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Conservative
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          93.8%;
87.5%;
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          Score 45; DB 21;
Pred. No. 4.3e+05;
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Pred. No.
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Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                inflammatory disease;
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RESULT
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AAB06418
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Best Local Similarity
Matches 7; Conserv
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                       Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cuncer;
           graft rejection.
                                                             Claudin-1 cell adhesion recognition sequence SEQ ID NO:
                                                                                         28-SEP-2000
                                                                                                                                         AAB06418 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 43; Page 97; 121pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   03-NOV-1998;
30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                         conformation.
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1 wriysyag 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             sequence; autoimmune disease; inflammatory disease;
ft rejection; cyclic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                across the skin -
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                                                                                                                                                                                                                                                                                                                               8 AA;
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                                                                                      (first entry)
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99US-0282029.
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87.5%;
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Matches 7
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99US-0282029
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Claim 43; Page 97; 121pp; English.

the

Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system

WPI;

2000-365610/31

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RESULT AABOGALT AABOGALT AABOGALT AABOGALT AABO AC CLau XX Clau XX Clau XX Clau XX Clau XX Clau XX Clau XX Clau XX Clau XX Clau XX Clau XX Clau XX Clau XX Clau XX Clau XX Clau Ab Cla
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30-MAR-1999;
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CAR sequence; autoimmune disease; inflammatory
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AAB06511
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Best Local Similarity
"hes 6; Conserv
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                                    Query Match
Best Local
                        Matches
                                                                                                                   cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
                                                                                                                                                                                                                                                      and
                                                                                  Sequence
                                                                                                                                                                                                                                                               Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
                                                                                                                                                                                                                                                                                                                                                                          03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          graft rejection;
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                                                                                                          conformation.
                                                                                                                                                                                                       The present invention relates to the use of peptides
                                                                                                                                                                                                                             Claim 43; Page 97; 121pp; English.
                                                                                                                                                                                                                                                                                                     WPI; 2000-365610/31
                                                                                                                                                                                                                                                                                                                            Blaschuck OW,
                                                                                                                                                                                                                                                                                                                                                                                                             03-NOV-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claudin-1 modulating agent;
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1 WKIYSYA 7
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                                                                                                                                                                                                                                                      across the skin
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                       Similarity 6; Conserv
                        Conservative
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                                                                                                                                                                                                                                                                                                                           Symonds
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99US-0282029.
                                                                                                                                                                                                                                                                                                                                                                                                             99WO-CA01029
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              peptide;
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85.7%;
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                                                                                                                                                                                                                                                                                                                           JM,
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                                                                                                                                                                                                                                                                                                                           Gour BJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cell adhesion recognition sequence;
                                                                                                                                                                                                                                                                                                                                                    INC
                                    Score 39; DB 21;
Pred. No. 4.3e+05;
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Pred. No. 4.3e+05;
                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      inflammatory disease;
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                                              Length 7;
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RESULT 10
AAB06477
ID AAB064
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AC AAB064
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DT 28-SEP
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DE Claudi
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CAR see
XW
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Best Local
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           Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer; graft rejection; cyclic.
                                                                                                                                                                                                                                                                                                                                                                                The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-l group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases. Inflammatory diseases and cancer, and ald wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
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                                                               Claudin-1 cyclic cell adhesion recognition sequence SEQ ID NO:
                                                                                             28-SEP-2000
                                                                                                                                              AAB06477 standard; peptide; 6 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 39; Page 95; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin -
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30-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                      to the desired target site.
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                                                                                                                                                                                                                                                                                     Local
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6; Conserv
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99US-0282029.
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100.0%; Prr
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                                                                                                                                                                                                                                                                                     Score 38;
Pred. No.
                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                    DB 21;
4.3e+05;
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Best Local Similarity
Matches 6; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Blaschuck OW,
                                                                                                  11-MAY-2000
                                                                                                                                                                   graft rejection; cyclic.
                                                                                                                                                                                                             Claudin-1 cyclic cell adhesion recognition sequence SEQ ID NO: 65
                                                                                                                                                                                                                                                            AAB06434;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to the use of peptides as claudin-mediated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 43; Page 97; 121pp; English.
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30-MAR-1999;
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                                            03-NOV-1998;
30-MAR-1999;
                                                                             03-NOV-1999;
                                                                                                                                              Mammalia
                                                                                                                                                                                         Claudin-1 modulating agent; cell adhesion recognition sequence;
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                                                                                                                                                                                                                                                                              AAB06434 standard; peptide;
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                      (ADHE-) ADHEREX TECHNOLOGIES INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                conformation.
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                                                                                                                                                                              sequence; autoimmune disease; inflammatory disease;
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                                                                                                                                                                                                                                    (first entry)
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Symonds JM,
                                           98US-0185908
99US-0282029
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99US-0282029.
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4.3e+05;
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The present invention relates to the use of peptides as claudin-mediated call adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases,
                                                                                                                                                                                                                                                Claim 43;
                                                                                                                                                                                                                                                                                                                     Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys and across the skin -  \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}
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30-MAR-1999;
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                                                                                                                                                                                                                                            Page 96; 121pp; English.
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                                                                                                                                                                                                                                                                                           Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous sys
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30-MAR-1999;
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                                                                                 Sequence
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4.3e+05;
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Claudin-1 modulating agent; cell adhesion recognition sequence;
                                                        Claudin-1 cyclic cell adhesion recognition sequence SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
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                                                                                                                    28-SEP-2000 (first entry)
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (ADHE-) ADHEREX TECHNOLOGIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAB06476 standard; peptide;
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|kiysyag
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO,
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99US-0282029
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 7;
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The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some

Query Match Best Local

Matches

Similarity 7; Conserv

Conservative

100.0%; Score 37; 100.0%; Pred. No. %tive 0; Mism-'

DB 21; 1 4.3e+05;

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Best Local
                                 The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
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                           conformation
                                                                                                                                                        Claim 43; Page 96; 121pp; English.
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                                                                                                                                                                                                                                                              Blaschuck OW,
                                                                                                                                                                                                                                                                                                                03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                       03-NOV-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         graft rejection; cyclic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claudin-1 cyclic cell adhesion recognition sequence
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99US-0282029
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Pred. No.
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3. 4.3e+05;
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AAB06448
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Best Local Similarity 100
Matches 7; Conservative
Claudin-1 cell adhesion recognition sequence SEQ ID NO: 483
                              28-SEP-2000
                                                                              AAB06424 standard; peptide; 6
                                                                                                                                                                                                                                                                                                               The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases, inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery
                                                                                                                                                                                                                                                                   Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       and across the skin -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Antibody modulation of claudin-mediated cell adhesion vasopermiability, for delivering drugs to tumors and t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Blaschuck OW,
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30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      graft rejection; cyclic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claudin-1 modulating agent; cell a CAR sequence; autoimmune disease;
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                                                                                                                                                                                                                                                                                              conformation.
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1 kiysyag
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                                                                                                                                                                                                                                                                                                      the desired target site. The present sequence has a cyclic
                                                                                                                                                                                                                                                                   8 AA;
                           (first entry)
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99US-0282029
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                                                                                                                                                                                                77.1%; Score 37;
100.0%; Pred. No.
tive 0; Mismatci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gour BJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cell adhesion recognition sequence;
sease; inflammatory disease; cancer;
                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                             DB 21;
. 4.3e+05;
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RESULT 2
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site.
                                                                                                             03-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                               graft
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claudin-1 modulating agent; cell adhesion recognition sequence; CAR sequence; autoimmune disease; inflammatory disease; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claudin-1 cyclic cell adhesion recognition sequence SEQ ID NO: 517
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30-MAR-1999;
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1 wriysy 6
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Pred. No. 4.3e+05;
1; Mismatches 0;
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and across the skin
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30-MAR-1999;
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                     96; 121pp; English.
                                             skin
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83.3%;
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Pred. No.
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inflammatory disease; cancer;
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. 4.3e+05;
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nervous system
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The present invention relates to the use of peptides as claudin-mediated

Query Match Best Local Similarity

72.9%;

Score Pred.

35; No.

DB 21; 4.3e+05;

Length

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RESULT 2
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                                   The present invention relates to the use of peptides as claudin-mediated cell adhesion modulators. The claudin-1 group of proteins are cadherins, which are membrane glycoproteins involved in cell adhesion. In some situations, cell adhesion occurs at abnormal levels, and these peptides can be used to modulate these levels, and thus treat autoimmune diseases inflammatory diseases and cancer, and aid wound healing and implant adhesion. In addition, they can also be used to facilitate drug delivery to the desired target site. The present sequence has a cyclic
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30-MAR-1999;
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Sequence
                           conformation.
                                                                                                                                                                 Claim 43; Page 96; 121pp; English.
                                                                                                                                                                                                                      Antibody modulation of claudin-mediated cell adhesion for increasing
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99US-0282029.
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disease; inflammatory disease; cancer;
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Pred. No. 4.3e
1; Mismatches
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4.3e+05;
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RESULT 25
AAB06501
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Best Local
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  28-SEP-2000
                      AAB06501;
                                        AAB06501 standard; peptide; 8
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                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                         Claim 43;
                                                                                                                                                                                                                  conformation.
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                                                                                                                                                                                                                                                                                                                                                                                                              Blaschuck OW,
                                                                                                                                                                                                                                                                                                                                                                                                                                 (ADHE-) ADHEREX TECHNOLOGIES INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                       03-NOV-1998;
30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      03-NOV-1999;
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                                                                                                                                        Conservative
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(first entry)
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99US-0282029.
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                                                                                                                                    Score 35; DB Z1; Pred. No. 4.3e+05; Wismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Antibody modulation of claudin-mediated cell adhesion for increasing vasopermiability, for delivering drugs to tumors and the nervous system and across the skin - 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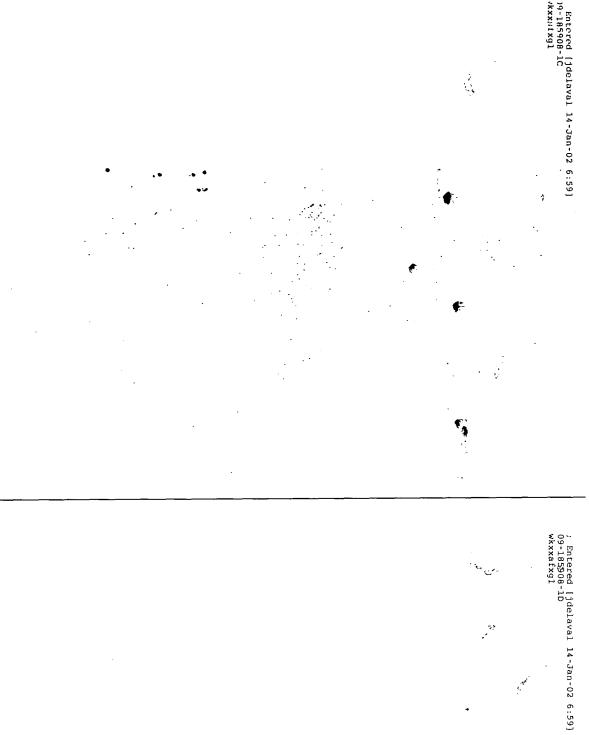
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